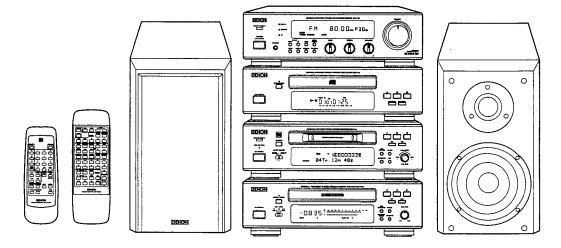
DENON

Hi-Fi Personal Component System

SERVICE MANUAL MODEL D-F100

PERSONAL COMPONENT SYSTEM



This Service Manual covers the following components:

DRA-F100 (AM/FM Stereo Receiver)
DCD-F100 (Compact Disc Player)
DMD-F100 (Mini Disc Recorder)
DRR-F100 (Cassette Tape Deck)

SC-F100 (Speaker System) (Option for Asia model)

● The D-F100 Personal Component System consists of the following:

AM/FM Stereo Receiver DRA-F100
Compact Disc Player DCD-F100
Mini Disc Recorder DMD-F100
Cassette Tape Deck DRR-F100

Speaker System SC-F100 (Option for Asia model)

Some illustrations using this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

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SPECIFICATIONS

■ Receiver (DRA-F100)

Practical maximum output: $30W + 30W (4\Omega/ohms)$

Low frequency adjustment range: 100Hz ±8dB 10kHz ±8dB High frequency adjustment range:

CD input jacks, tape input/output jacks, MD input/output jacks, Aux input jacks. Audio input/output jacks:

3.5mm headphones jack and phono input jacks.

FM: 87.50MHz~108.00MHz Reception frequency band:

AM: 522kHz~1611kHz FM: 1.5μV/75Ω/ohms

Reception sensitivity: AM: 20μV

35dB (1kHz) FM stereo separation:

AC230V, 50Hz (Europe & U.K. models) Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumption:

270 (W) \times 84 (H) \times 289 (D) mm (including feet, controls and terminals) (10-5/8" \times 3-5/16" \times 11-3/8") Maximum external dimensions:

4.1kg (9lbs. 1 oz) Weight:

■ CD player (DCD-F100)

Wow & flutter: Below measurable limits (±0.001% W.peak)

Sampling frequency:

Optical source: Semiconductor AC230V, 50Hz (Europe & U.K. models) Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumption:

270 (W) \times 84 (H) \times 257 (D) mm (including feet, controls and terminals) (10-5/8" \times 3-5/16" \times 10-25/64") 2.7kg (5 lbs. 15oz) Maximum external dimensions:

Weight:

Remote control unit (for System) (RC-848: Europe & U.K. models)

(RC-829: Asia model)

Remote control method:

Infrared pulse No. buttons: 52 (Europe & U.K. models)

(Asia model)

Power supply:

DC3V using two R6P batteries 64 (W) × 195 (H) × 18 (D) mm, (2-1/2" × 7-43/64" × 23/32") Maximum external dimensions:

130g (Approx. 4.6oz) (including batteries)

■ MD recorder (DMD-F100)

MiniDisc digital audio system

Below measurable limits (±0.001% W.peak or less) Wow & flutter:

44.1kHz Sampling frequency: Recording method: Magnetic modulation overwriting

Semiconductor Optical source:

AC230V, 50Hz (Europe & U.K. models) Power supply: AC115/230V, 50/60Hz (Asia model)

Power consumptions: 11W

270 (W) \times 84 (H) \times 269 (D) mm (including feet, controls and terminals) (10-5/8" \times 3-5/16" \times 10-19/32") Maximum extrnal dimensions:

Weight: 2.9kg (6 lbs. 6oz)

Remote control unit (RC-267) (for MD)

Infrared pluse Remote control method:

No. button:

DC3V using two R6P batteries Power supply: Maximum external dimensions: 54 (W) \times 155 (H) \times 29 (D) mm, (2-1/8" \times 3-7/64" \times 1-7/64")

100g (3.5oz) (including batteries) Weight:

■ Cassette deck (DRR-F100)

Horizontal 4-track 2-channel stereo auto reverse cassette deck Type:

Heads: 1 hard permalloy recording/playback head

duble-gap ferrite erasing head

Tape speed: 4.75cm/s

Dolby B and C NR, Dolby HX Pro Included circuits: Usable tapes: Normal, chrome and metal Power supply: AC230V, 50Hz (Europe & U.K. models) AC115/230V, 50/60Hz (Asia model)

Power consumption: 14W

Maximum external dimensions: 270 (W) \times 84 (H) \times 271 (D) mm (including feet, controls and terminals)

(10-5/8" × 3-5/16" × 10-43/64") 2.9kg (6 lbs. 6oz)

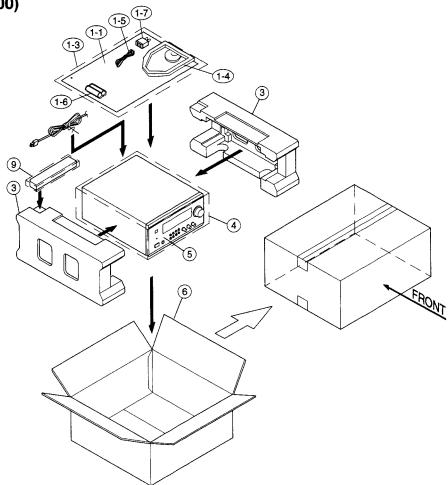
Weight:

For improvement purposes, specifications and functions are subject to change without advanced notice.

Dolby noise reduction and HX pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

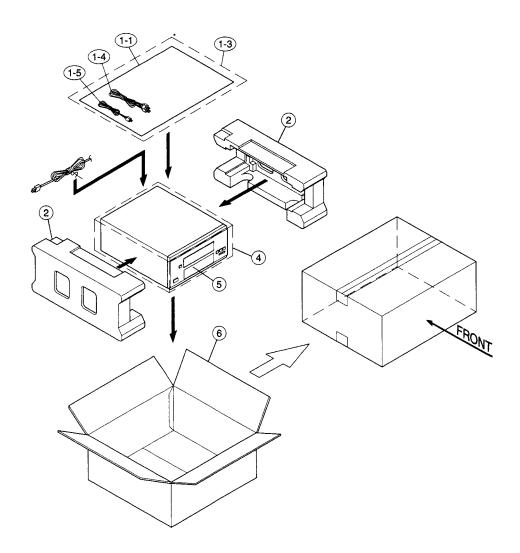
"DOLBY", the double-D symbol [1] and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

PACKING VIEW
Receiver (DRA-F100)



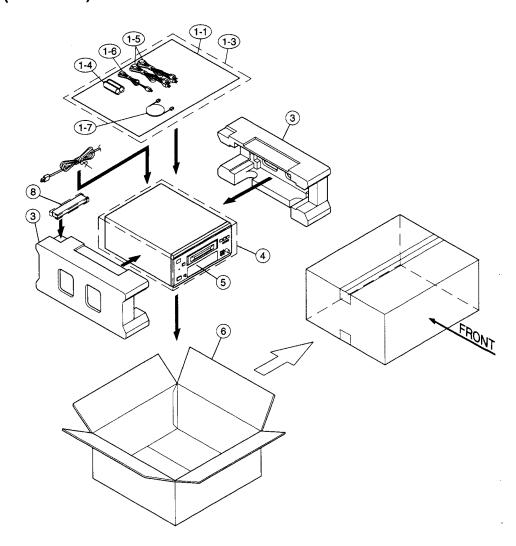
R	ef. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	4	960 0116 104	Poly bag (set)	6337200029010	1
*	0-2		Pos label	5507051630010	2	5		DRA-F100	HK980801	1
l				Europe Model					Europe Model	
*	0-2		Pos label	5507051630020	2	5		DRA-F100	HK980803	1
		!		U.K. Model					U.K. Model	
l	1-1	960 0115 820	Instruction manual (E2)	5708210010010	1	5		DRA-F100	HK980804	1
1				Europe Model					Asia Model	
	1-1	960 0115 833	Instruction manual (EK)	5708210030010	1	6	960 0115 927	Carton case	6007210010010	1
				U.K. Model					Europe Model	
	1-1	960 0115 817	Instruction manual (E1)	5708210040010	1	6	960 0115 930	Carton case	6007210010100?	1
1				Asia Model					U.K. Model	
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1	6	960 0115 914	Carton case	6007210010020	1
1				Asia Model only					Asia Model	
ı	1-3	960 0107 809	Poly bag	6337000240010	1	8	960 0142 107	Cushion pad	6240210001400	1
l	1-4	960 0004 106	Loop antenna	E601000050000	1] [U.K. Model only	
l	1-5	960 0004 203	FM antenna	E605000030000	1	9	960 0090 301	Remote controller RC-848	8300012940020	1
	1-6	_	Battery (R6P)	G670001R50010	2				Europe & U.K. Models	; [
Δ	M0000000000000000000000000000000000000	960 0142 204	AC adapter	L109283004100		9	960 0081 200	Remote controller RC-829	8300012950010	1
				Asia Model only] [Asia Model	
	3	960 0116 007	Cushion	6230210014000	1					
]				

CD Player (DCD-F100)



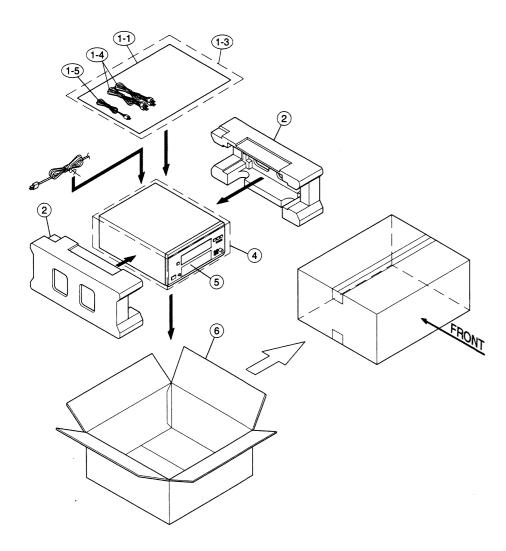
Ref.	No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	1-4	960 0031 108	Pin cord	L063210200000	1
*	0-2		Pos label	5507051620010	2	1-5	960 0006 104	Mini plug cord	L063210210040	1
				Europe Model		2	960 0122 208	Cushion	6230210024000	1
*	0-2	_	Pos label	5507051620020	2	4	960 0116 104	Poly bag (set)	6337200029010	1
				U.K. Model		5		DCD-F100	HD980501	1
	1-1	960 0126 822	Instruction manual (E2)	5708210050010	1	ŀ			Europe Model	
				Europe Model		5		DCD-F100	HD980503	1
	1-1	960 0126 835	Instruction manual (EK)	5708210070010	1				U.K. Model	
				U.K. Model		5		DCD-F100	HD980504	1
	1-1	960 0126 819	Instruction manual (E1)	5708210080010	1				Asia Model	
			, ,	Asia Model		6	960 0126 929	Carton case	6007210010040	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1	 			Europe & U.K. Models	
			` ′	Asia Model only		6	960 0126 916	Carton case	6007210010050	1
	1-3	960 0107 809	Poly bag	6337000240010	1				Asia Model	

MD Recorder (DMD-F100)

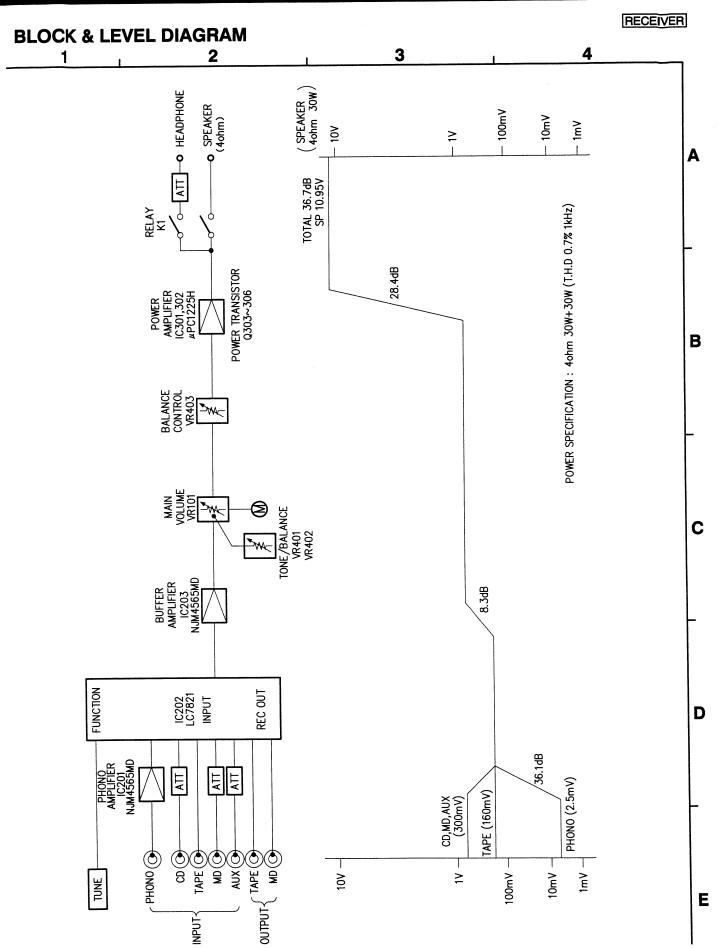


Ret	i. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	1-6	960 0006 104	Mini plug cord	L063210210040	1
*	0-2	_	Pos label	5507051610010	2	1-7	960 0132 405	Optical cord	L068601010010	1 1
				Europe Model		3	960 0122 208	Cushion	6230210024000	1
*	0-2	_	Pos label	5507051610020	2	4	960 0116 104	Poly bag (set)	6337200029010	1
				U.K. Model		5		DMD-F100	HM980201	1
	1-1	960 0122 020	Instruction manual (E2)	5708210130010	1				Europe Model	1
		•	, ,	Europe Model		5		DMD-F100	HM980203	1
	1-1	960 0122 033	Instruction manual (EK)	5708210150010	1				U.K. Model	
			, ,	U.K. Model		5		DMD-F100	HM980204	1
	1-1	960 0122 017	Instruction manual (E1)	5708210160010	1				Asia Model	
			, ,	Asia Model		6	960 0122 127	Carton case	60072100100A0	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1				Europe & U.K. Models	ا ز
	-			Asia Model only		6	960 0122 114	Carton case	60072100100B0	1
	1-3	960 0107 809	Poly bag	6337000240010	1				Asia Model	
i	1-4	_	Battery (R6P)	G670001R50010	2	8	960 0135 004	Remote controller RC-267	8300400300010	1
	1-5	960 0031 108	1 '''	L063210200000	2					

Cassette Deck (DRR-F100)



R	ef. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	0-1	960 0092 901	Bar code label	5500014920010	2	1-4	960 0031 108	Pin cord	L063210200000	2
*	0-2		Pos label	5507051600010	2	1-5	960 0006 104	Mini plug cord	L063210210040	1
Ì				Europe Model		2	960 0122 208	Cushion	6230210024000	1
*	0-2		Pos label	5507051600020	2	4	960 0116 104	Poly bag (set)	6337200029010	1
				U.K. Model		5		DRR-F100	HC980401	1
Ì	1-1	960 0132 324	Instruction manual (E2)	5708210090010	1				Europe Model	
				Europe Model		5		DRR-F100	HC980403	1
	1-1	960 0132 337	Instruction manual (EK)	5708210110010	1				U.K. Model	
				U.K. Model		5		DRR-F100	HC980404	1
	1-1	960 0132 311	Instruction manual (E1)	5708210120010	1				Asia Model	
•				Asia Model		6	960 0132 528	Carton case	6007210010070	1
*	1-2	515 0671 708	Service station list (EX)	5777001620010	1				Europe & U.K. Models	
				Asia Model only		6	960 0132 515	Carton case	6007210010080	1
	1-3	960 0107 809	Poly bag	6337000240010	1				Asia Model	
		l		L		l L	L		l	



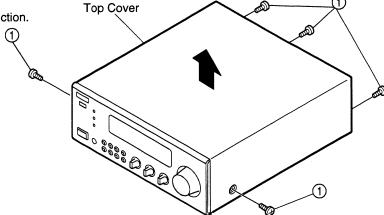
DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

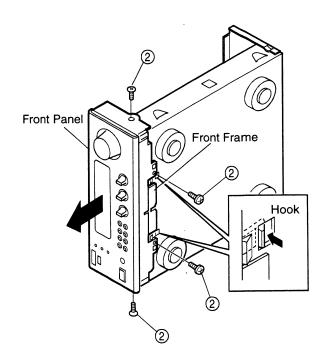
1. Top Cover & Front Panel

(1) Remove 5 screws 1 fixing the Top Cover.

(2) Detach the Top Cover as shown in the arrow direction.



- (3) Remove 4 screws (2) on the bottom and both sides.
- (4) Disconnect 16P FFC from its connector base.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



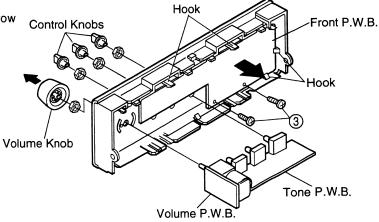
2. P.W.B.s on Panel

TONE/VOLUME P.W.B.

(1) Pull out Knobs (3 Control & 1 Volume) to the arrow direction, and remove 4 Nuts fixing each P.W.B.

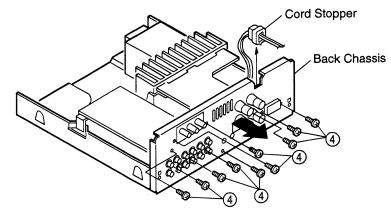
FRONT P.W.B.

- (2) Remove 2 screws (3).
- (3) Detach the Front P.W.B. with releasing 4 Hooks.



3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 10 screws 4 fixing the Back Chassis.
- (3) Detach the Back Chassis to the arrow direction.

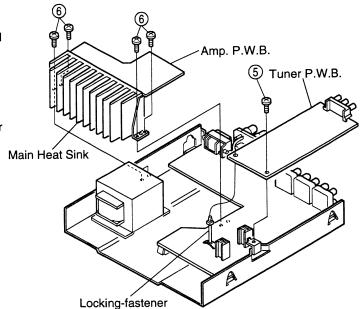


TUNER P.W.B.

- (4) Disconnect 13P FFC and 9P Connector Cord from their connector bases.
- (5) Detach the Tuner P.W.B. after removing 1 screw (5) and releasing the hook of Locking-fastener.

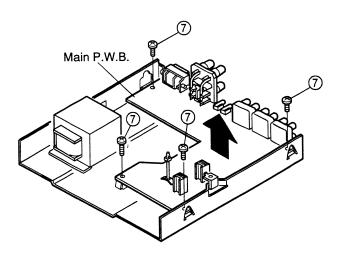
AMP. P.W.B.

- (6) Remove 4 screws (6) fixing the Heat Sink Bracket L/R.
- (7) Disconnect 4P and 6P Connector Cord from their connector bases.
- (8) Detach the Amp. P.W.B. with the Main Heat Sink.



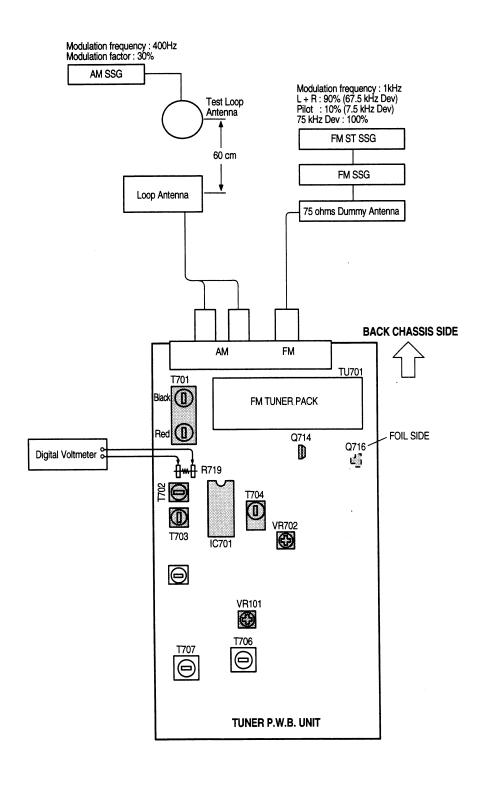
MAIN P.W.B.

(9) Remove 4 screws (7), and detach the Main P.W.B. to the arrow direction.



ADJUSTMENTS

WIRING DIAGRAM



1. FM adjustment (BAND button: FM, FM MODE button: AUTO (STEREO))

					Input			Out	tput	Adjustment	Setting	
Step	Adjustment item	Tuning point (channel setting)	Measuring Instrument	Frequency	Input level	Modulation	Connection location	Measuring instrument	Connection location	location	value	Notes
1	FM DC balance	98.00MHz	FM S.G.	98.00MHz	60dB μ	1kHz 75kHz DEV.	FM antenna terminal	Digital volt meter	Both leads of R719	T702	0±50mV	Perform with monaural modulation signal
2	Distortion	98.00MHz	FM S.G.	98.00MHz	60dB μ	1kHz 75kHz DEV.	FM antenna terminal	Distortion factor meter	Output jack	T703	Minimum distortion	Perform with monaural modulation signal
3						Repeat St	eps 1 and 2					
4	Muting level	98.00MHz	FM S.G.	98.00MHz	19dB μ	1kHz 75kHz DEV.	FM antenna terminal	Check for the lighting of TUNED	Output jack	VR702	Input level 22dB µ±4dB	(Level at which TUNED lights up) Level at which the output is provided
5	Stereo separation	98.00MHz	FM stereo modulator FM S.G:	98.00MHz	60dB μ	1kHz L or R : 67.5kHz DEV. Pilot ; 7.5kHz DEV.	FM antenna terminal	VTVM Oscilloscope	Output jack	VR703	Minimum R.ch. Output	Perform with L.ch. Input of FM stereo modulator

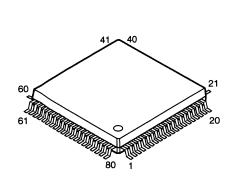
2. AM adjustment (BAND button: AM)

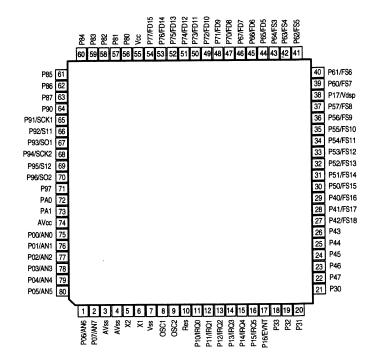
					Input			Out	tput	Adiustment	Setting	
Step	Adjustment item	Tuning point (channel setting)	Measuring Instrument	Frequency	Input level	Modulation	Connection location	Measuring instrument	Connection location	Adjustment location	value	Notes
1	IF	Clear frequency (without a broadcast)	AM IF sweep	455kHz	Level at which AGC is not applied		AM antenna terminal	Oscilloscope	⊕ IC701 Output terminal Pin@ ⊝ Q716 (Basse)	T704	Waveform maximum and symmetry	
		522kHz						Digital	⊕ GND (Collector)	T701(Black)	1.2V±0.2v	
2	Band edge	1611kHz	_	_	_				(Contector) ⊝ GND		Approx. 7.5v	No place to adjust
3	Tracking	603kHz	AM S.G.	603kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T701(Red)	Maximum output	
4			,	F	lepeat Steps	2 and 3, and	set the outp	ut to maximu	ım.			

SEMICONDUCTORS

• IC's

HD6433726SE13H (IC901)



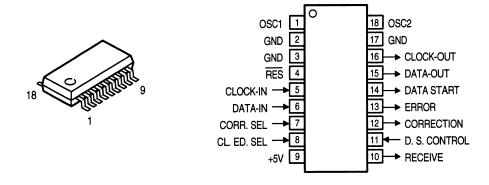


● HD6433726SE13H Terminal Function

Pin No.	Symbol	Port Name	I/O	INI	ACT	Function
1	AM Stereo	P60/AN6			L	AM stereo signal detection
2	Tuned In	P07/AN7	ı	L	Н	-FM/AM tuning signal input
3	GND	Avss			_	Analog GND
4	GND	Test				
5	Sub Xtal	X2	0		_	Sub X'tal drive
6	Sub Xtal	X1				Sub X'tal input
7	Vss	Vss				GND
8	OSC1	OSC1	0			8.38MHz X'tal output
9	OSC2	OSC2	1		_	8.38MHz X'tal input
10	Reset	Res	1		L	Reset input
11	Remocon	P10/IRQ0	1		L	Remote control signal input
12	50/60	P11/IRQ1	1		L	50/60Hz AC input
13	Protect	P12/IRQ2	1		L	Over-current detect signal input
14	RDS Start	P13/IRQ3			L	RDS signal start detection
15	RXD	P14/IRQ4	1	_	L	DENON bus data input
16	Mute	P15/IRP5	0	Н	L	Speaker relay OFF
17	GND	P16/EVNT	I		_	Not used
18	N.C.	P33	0	L	L	No connection
19	RT Gr LED	P32	0	L	Н	RT green LED
20	TA Gr LED	P31	0	L	Н	TA green LED
21	PTY Gr LED	P30	0	L	Н	PTY green LED
22	RT Rd LED	P47	0	L	Н	RT red LED
23	TA Rd LED	P46	0	L	Н	TA red LED
24	RTY Rd LED	P45	0	L	Н	PTY red LED

Pin No.	Symbol	Port Name	I/O	INI	ACT	Function
25	Diode 1	P44	1		Н	Setting recovery input 1
26	Diode 2	P43	Ī		Н	Setting recovery input 2
27	Seg 1	P42/FS18	0	L	Н	Segment 1 output
28	Seg 2	P41/FS17	0	L	Н	Segment 2 output
29	Seg 3	P40/FS16	0	L	Н	Segment 3 output
30	Seg 4	P50/FS15	0	L	Н	Segment 4 output
31	Seg 5	P51/FS14	0	ī	Н	Segment 5 output
32	Seg 6	P52/FS13	0	Ī	Н	Segment 6 output
33	Seg 7	P53/FS12	0	L	Н	Segment 7 output
		P54/FS11	0	L	Н.	Segment 8 output
34	Seg 8	P55/FS10	0	ī	H	Segment 9 output
35	Seg 9	P56/FS9	0	L	Н.	Segment 10 output
36	Seg 10	P57/FS8	0	L	<u>''</u>	Segment 11 output
37	Seg 11		-	<u> </u>	 ''-	High B voltage
38	Vdisp	P17/Vdsp	0	-	Н	Segment 12 output
39	Seg 12	P60/FS7	0	L	Н	Segment 13 output
40	Seg 13	P61/FS6	+	L	+	Segment 14 output
41	Seg 14	P62/FS5	0	-	H	9 1
42	Seg 15	P63/FS4	0	L	H	Segment 15 output
43	Seg 16	P64/FS3	0	L	H	Segment 16 output
44	Dig 11	P65/FD5	0	L	H	Digit 11 output
45	Dig 10	P66/FD6	0	<u> </u>	H	Digit 10 output
46	Dig 9	P67/FD7	0	<u> </u>	H	Digit 9 output
47	Dig 8	P70/FD8	0	L	H	Digit 8 output
48	Dig 7	P71/FD9	0	L	Н	Digit 7 output
49	Dig 6	P72/FD10	0	L	Н	Digit 6 output
50	Dig 5	P73/FD11	0	Ļ-L_	<u> </u>	Digit 5 output
51	Dig 4	P74/FD12	0	<u> </u>	H	Digit 4 output
52	Dig 3	P75/FD13	0	L	H	Digit 3 output
53	Dig 2	P76/FD14	0	L	H	Digit 2 output
54	Dig 1	P77/FD15	0	L	Н	Digit 1 output
55	Vcc	Vcc		_	<u> </u>	5V
56	Volume Dwn	P80	0	Н	H	Master VR down
57	Volume Up	P81	0	H	Н	Master VR up
58	Power	P82	0	L	L	Amp circuit power ON
59	TU Mute	P83	0	Н	L	Tuner audio mute
60	Auto/Mono	P84	0	Н	1-	FM Auto/Mono setting
61	Ant Sns	P85	0	L	H	ANT sens. attenuation
62	SDB	P86	0	L	Н	Super dynamic bass
63	Sel EEROM	P87	0	L	Н	SCI→EEPROM select
64	PLL CE	P90	0	L	Н	PLL serial data select output
65	Bus Clock	P91/SCK1	0	Н	_	DENON bus clock
66	Bus Data In	P92/SI1	1		_	DENON bus data input
67	Bus Data Out	P93/SO1	0	Н		DENON bus data output
68	RDS Clock	P97/SCK2	0	Н	_	RDS data-in clock input, PLL control clock output, LC7821 clock output
69	RDS Data	P95/SI2	1	Н		RDS serial data input
70	PLL Data	P96/S02	0	Н	1 —	10.000
71	RDS Res	P97	0	Н	L	LC7070 reset output
72	PLL STRQ	PA0	0	L	Н	
73	LC7821CE	PA1	0	L	Н	
74	AVcc	AVcc	1_			Analog 5V power supply
75	Key AD0	P00/AN0	T	T_	1_	Analog key input 0
76	Key AD1	P01/AN1	i	_	1=	Analog key input 1
77	PWB Test	P02/AN2	$\pm i$	1_	. _	5V board check
78	Stereo In	P03/AN3	T i	1_	. L	FM stereo demodulation detect
79	Signal In	P04/AN4	+ ;	1	- L	RF signal detect input
80			1		1	IF count tuning detect
60	Stop In	P05/AN5	1 !		L	in count turning dotoot

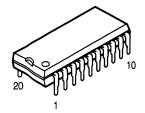
LC7074M (IC705)

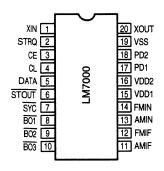


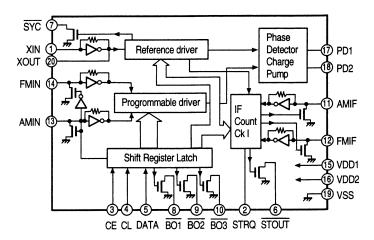
● LC7074M Terminal Function

Pin No.	Symbol	I/O	INI	Function
1	OSC1	1	_	4MHz ceramic oscillator connection.
2	GND			• GND
3	GND		_	● GND
4	RES	1		System reset input.
				Reset and restart is accomplisheed by inputting the low level for 4 or more clock cycles.
5	CLOCK IN	ı	Н	RDS LA2230 serial demodulation clock input.
6	DATA IN		Н	RDS LA2230 serial demodulation data input.
7	CORR. SEL	T	Н	• Error correction on/off selection input.
-				• Sets the IC to correct errors in the RDS demodulation data or to output the data without correction.
				When input is 0: No corrections are made
				When input is 1: Corrections are executed
8	CL. ED. SEL	ı	Н	Serial data clock polarity selection input.
				When input is 0: Serial data output is enabled at the rise of the output clock.
				(Serial data output changes at the fall of the output clock.)
				When input is 1: Serial data output is enabled at the fall of the output clock.
				(Serial data output changes at the rise of the output clock.)
				Note: Set at the time of RES input.
9	+5V		Н	Power supply.
10	RECEIVE (NC)	0	H	Output during RDS data reception.
	TILOLIVE (IVO)		''	After the completion of sync detection, there is a low-level output while the serial data is being
				output. There is a high-level output at other times.
				Open drain output.
			 	Block data start signal control input.
11	D.S. CONTROL	1	Н	When input is 0: Data start signal is output for all blocks.
• •	D.G. 00111102		''	When input is 1: Data start signal is output for only the second block.
12	CORRECTION (NC)	0	Н	Output without error correction.
	0011112011011(110)		1	There is a low-level output when the output data of the serial data output have been corrected or
				when correction is not possible. There is a high-level output when correction has not been
				applied.
				Open drain output.
13	ERROR (NC)	0	Н	Presence of error output.
	Little (140)		''	There is a low-level output when the output data of the serial data output has an error and
				correction is not possible. There is high-level output when there is no error or when the error has
				been corrected.
				Open drain output.
14	DATA START	0	Н	Block data start signal of the serial data output.
	DAIAGIAIII		''	Output with pull-up resistor:
15	DATA OUT	0	T _H	Data output of the serial data output. Output with pull-up resistor.
	CLOCK OUT	0	 H	Clock output of the serial data output.
16		1	1 11	
16	020011001	1		Output with pull-up resistor:
16	GND		+_	Output with pull-up resistor:

LM7000 (IC703)







Pin Description

SYC

: Clock (400kHz) for the controller

XIN, XOUT

: X'tal oscillator (7.2MHz) with built-in feedback resistor

FM IN, AM IN

: Local osc. signal input

CE, CL, DATA B01, B02, B03 : Data input : Band data output. B01 can be set as the time base

output (8Hz)

STRQ

: IF counter request input

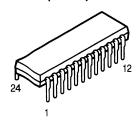
STOUT VDD1, VDD2, VSS AMIF, FMIF : Auto research stop signal output : Power supply (VDD2 is a back-up power supply)

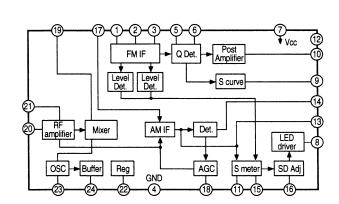
: IF signal input

PD1, PD2

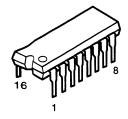
: Charge pump output

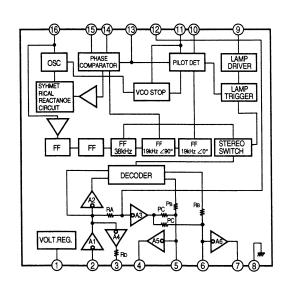
LA1267 (IC701)



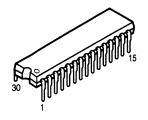


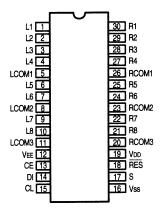
LA3410 (IC702)

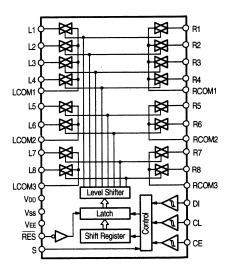




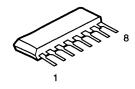
LC7821 (IC202)

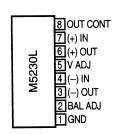


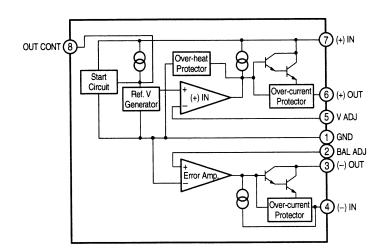




M5230L(IC401)

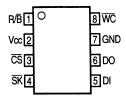






XL9040F (IC902)

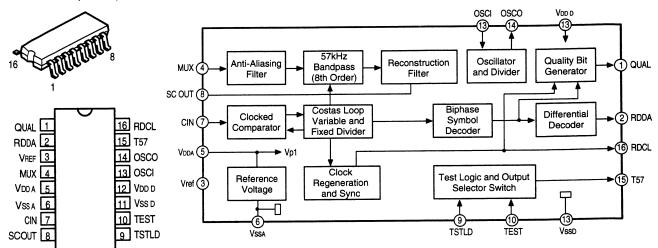




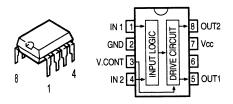
XL9040F Terminal Function

Pin No.	Pin Name	1/0	Function
1	R/B	0	READY, BUSY status signal output.
2	Vcc	-	Connect to power supply.
3	ĊŚ	ı	Chip select input.
4	SK	ı	Serial data clock input.
5	DI	ı	Ope. code, address, serial data input.
6	DO	0	Serial data output.
7	GND	_	Ref. V for all input/output: OV
8	WC	1	Write control input.

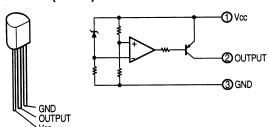
SAA6579T (IC704)



LB1639 (IC102)



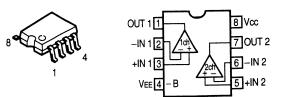
PST600C (IC903)



SAA6579T Terminal Function

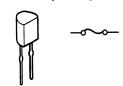
Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS fata output.
3	Vref	Reference voltage output (0.5 VDDA).
4	MUX	Multiplex signal input.
5	VDD A	+5V supply voltage for analog part.
6	Vss a	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	TSTLD	Test control.
10	TEST	Test enable.
11	Vss D	Ground for digital part (0V).
12	VDD D	+5V supply voltage for digital part.
13	OSCI	Oscillator input.
14	osco	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

NJM4565MD (IC201, 203)



• IC PROTECTOR

ICP-N15(IC1~3)



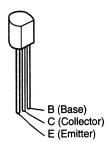
• REMOTE CONTROL SENSOR

PNA4602M00HA(RM901)

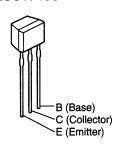


• TRANSISTORS

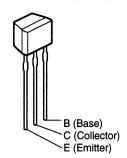




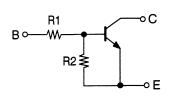
2SA933S 2SC1740S



DTC114ES (NPN) DTC144ES (NPN)

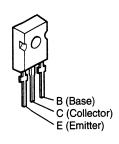


DTC ES Series

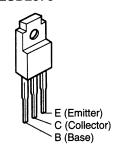


	R1	R2
DTC114ES	10kohm	10kohm
DTC144ES	47kohm	47kohm

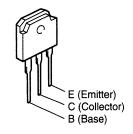
2SC4137



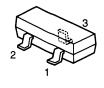
2SB1655 2SD2576



2SB1559 2SD2389

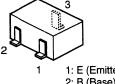


KTC3880



- 1: E (Emitter)
- 2: B (Base)
- 3: C (Collector)

2SA1037K 2SC2412K

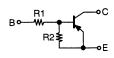


- 1: E (Emitter)
- 2: B (Base) 3: C (Collector)

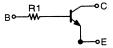
DTA114EK DTC343TK



- 1: E (Emitter) 2: B (Base) 3: C (Collector)



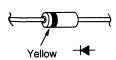
	R1	R2
DTA114EK	10kohm	10kohm



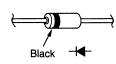
	R1
DTC343TK	4.7kohm

DIODES

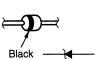
1SS133



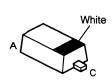
1N4004A



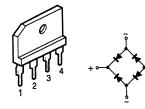
MTZJ13B MTZJ27B MTZJ5.6B MTZJ6.2B



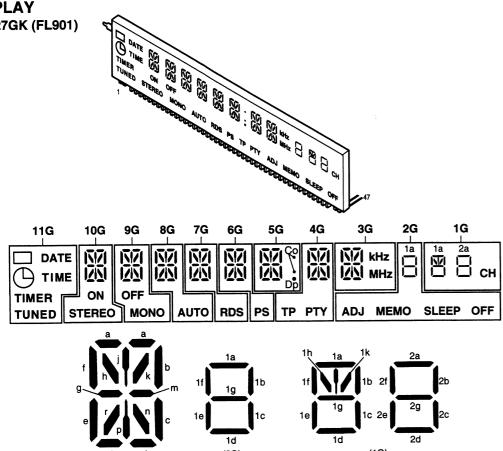
1SS355



D3SB20







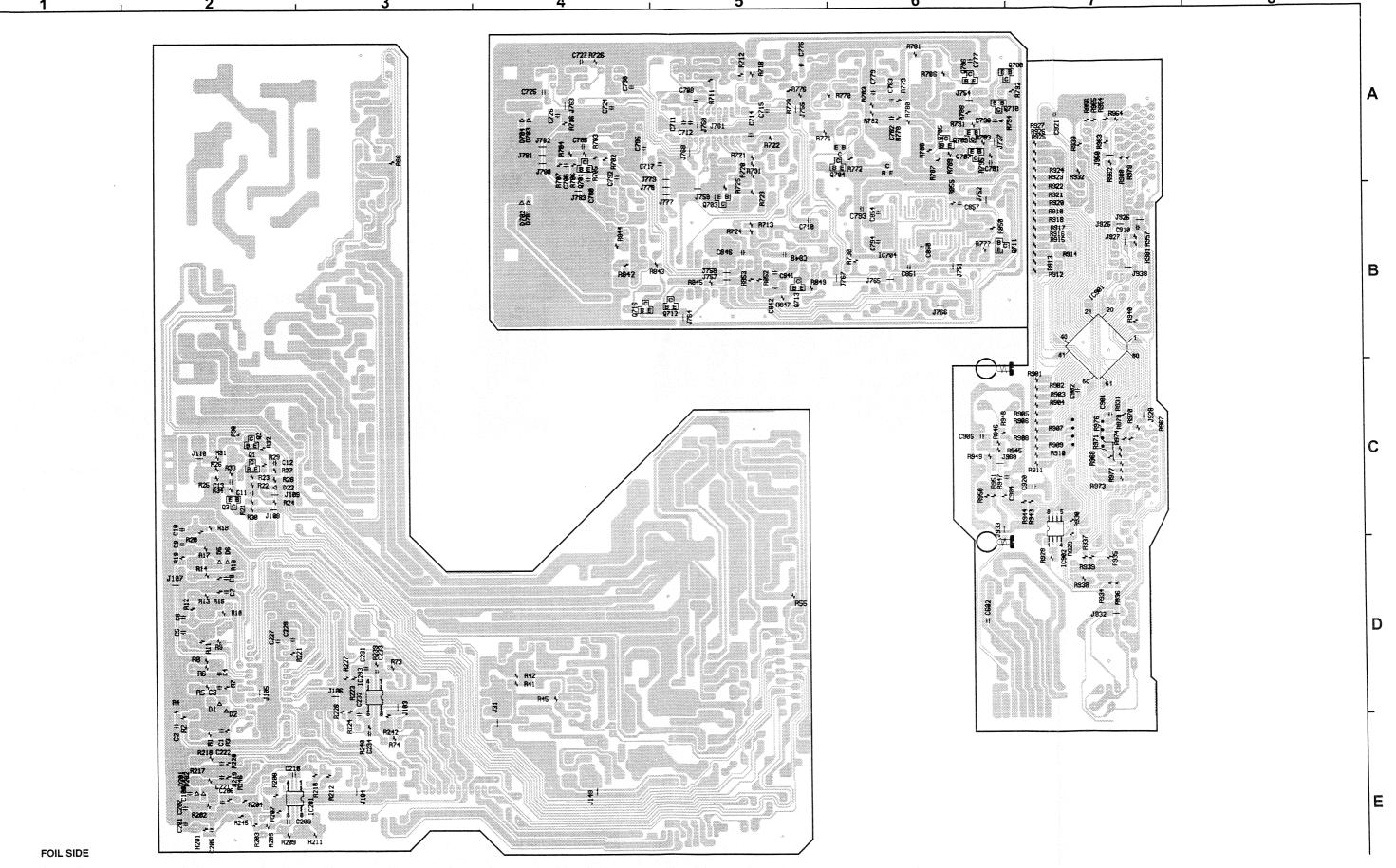
Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13										23	-
Electrode	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	NC	N							
																					_			1
	25													38							_	_	47	+
Electrode	NC	NC	NC	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2	

Note: 1. F1 and F2: Filaments
2. NP: No pin
3. NC: No connection
4. 1G through 11G: Grid

Anode Connection

-1110 a 0 0	Officerio	···									
	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1		а	а	а	а	а	а	а	а	1a	1a
P2	DATE	b	b	b	b	b	b	b	b	1b	1b
P3	(3)	С	С	С	С	С	С	С	С	1c	1c
P4	TIME	d	d	d	d	d	d	d	d	1d	1d
P5	TIMER	е	е	е	е	е	е	е	е	1e	1e
P6	TUNED	f	f	f	f	f	f	f	f	1f	1f
P7		g	g	g	g	g	g	g	g	1g	1g
P8		h	h	h	h	h	h	h	h	ADJ	1h, 1k
P9		i	i	j	j	j	j	j	j	MEMO	2a
P10		k	k	k	k	k	k	k	k	SLEEP	2b
P11		m	m	m	m	m	m	m	m	OFF	2c
P12		n	n	n	n	n	n	n	n	_	2d
P13		р	р	р	р	р	р	р	р	_	2e
P14	_	r	r	r	r	r .	r	r	r		2f
P15	<u> </u>	ON	OFF	AUTO	RDS	PS	Co	TP	kHz		2g
P16	_	STEREO	MONO				Dp	PTY	MHz		CH



COMPONENT SIDE

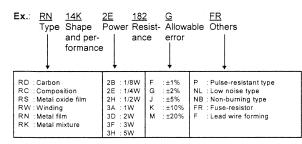
NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

Parts marked with this symbol \triangle have critical characteristics.

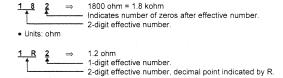
Use ONLY replacement parts recommended by the manufacturer.

Resistors

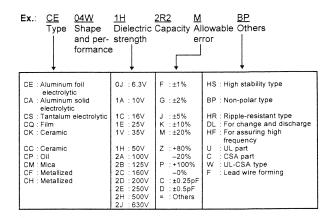


* Resistance

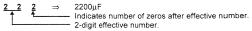
· Units: ohm



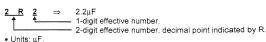
Capacitors



* Capacity (electrolyte only)



• Units: μF.



* Capacity (except electrolyte)

2 2 ≥ 2200pF=0.0022µF
 (More than 2)—Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

PARTS LIST OF P.W.B. UNIT

MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	DUCTORS G			D22	960 0117 501	Diode 1SS355	K005035500010
IC1~3		IC ICP-N15	J120001500030	D201,202	960 0117 501	Diode 1SS355	K005035500010
	263 0646 007	IC M5230L	J126523000010				
IC4	263 0646 007	IC WIDZOUL	3120323000010	D701~704	960 0117 501	Diode 1SS355	K005035500010
IC201	928 0035 809	IC NJM4565MD	J121456500040	D705~711	963 0020 309	Diode 1SS133	K000013300520
IC201	262 1808 003	IC LC7821	J040782100010				
IC202	928 0035 809	IC NJM4565MD	J121456500040	D901	963 0020 309	Diode 1SS133	K000013300520
10200	320 0000 000	TO HOM TOOMS					Europe & U.K. Models only
IC701	263 0421 002	IC LA1267	J124126700010	D903	963 0020 309	Diode 1SS133	K000013300520
IC702	960 0092 503	IC LA3410	J124341000010				
IC703	262 0703 002	IC LM7000	J120700000010	ZD1,2	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
IC704	262 1701 906	IC SAA6579T	J124657900010	ZD3	960 0095 607	Zener diode MTZJ5.6B	K06005R644520
IC705	9LC K044 71	IC LC7074M	J120707400010	ZD4	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
10700	0201101111			ZD5	960 0117 705	Zener diode MTZJ27B	K06027R044520
IC901	960 0119 101	IC HD6433726SD***	J020643372620	ZD6	960 0037 209	Zener diode MTZJ13B	K06013R044520
IC902	960 0050 503	IC XL9040F	J000904000010				
IC903	960 0119 208	IC PST600C	J125600200020	LED901~903	960 0050 202	LED PI3-SPR39MVW3	K500032500010
							Europe & U.K. Models only
Q1	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210				
Q2,3	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	PESISTO	RS GROUP		1
Q4	960 0049 404	Transistor 2SD2576F	J5032576F0010		no dhoor	Carbon chip 6.2 kohm 1/10W	C200062260200
Q5	9LC F013 21	Transistor 2SB1655E	J5011655E0010	R1,2 R3,4		Carbon chip 10 kohm 1/10W	C200010360200
Q6	960 0049 404	Transistor 2SD2576F	J5032576F0010	R5,6		Carbon chip 1 kohm 1/10W	C200010260200
Q7	269 0040 902	Transistor DTC144ES	J6020144E0010	1		Carbon chip 1 Mohm 1/10W	C200010560200
Q8	960 0005 002	Transistor KTC3198Y	J5023198Y0000	R7,8		Carbon chip 470 ohm 1/10W	C200047160200
Q9	271 0183 914	Transistor 2SA933S	J5000933S0050	R9,10			C200047100200
Q12	269 0020 906	Transistor DTC114ES	J6020114E0010	R11,12		Carbon chip 1 Mohm 1/10W	C200010300200
Q13	960 0005 105	Transistor KTA1266Y	J5001266Y0050	R13,14		Carbon chip 6.2 kohm 1/10W	
Q14~16	960 0005 002	Transistor KTC3198Y	J5023198Y0000	R15,16		Carbon chip 10 kohm 1/10W	C200010360200
Q14~10	960 0005 105	Transistor KTA1266Y	J5001266Y0050	R17,18		Carbon chip 470 ohm 1/10W	C200047160200
Q17 Q18	960 0003 103	Transistor 2SD2576F	J5032576F0010	R19,20		Carbon chip 1 Mohm 1/10W	C200010560200
Q10 Q20		Transistor DTC114ES	J6020114E0010	R21		Carbon chip 10 kohm 1/10W	C200010360200
Q20	269 0020 906	Transision DTC114E3	Europe & U.K. Models only	R22,23		Carbon chip 22 kohm 1/10W	C200022360200
			Lutope & O.K. Models Offly	R24		Carbon chip 10 kohm 1/10W	C200010360200
0704	000 0050 004	Transistan ICTC00000	J5223880O0210	R25		Carbon chip 47 kohm 1/10W	C200047360200
Q701	960 0050 901		J5222412K0210	R26		Carbon chip 220 ohm 1/10W	C200022160200
		Transistor 2SC2412K(S)	J5220343T0210	R27		Carbon chip 22 kohm 1/10W	C200022360200
Q707~710			1	R28		Carbon chip 2.2 kohm 1/10W	C200022260200
Q711,712	269 0083 901	Transistor DTA114EK	J5200114E0210	R29,30		Carbon chip 10 kohm 1/10W	C200010360200
Q713	960 0050 901	Transistor KTC38800	J5223880O0210	R31		Carbon chip 100 ohm 1/10W	C200010160200
Q714	273 0178 022		J5021740S0010	R32~34		Carbon chip 22 kohm 1/10W	C200022360200
Q715	273 0207 003		J5021845F0000	R36		Carbon film 47 kohm 1/5W	C00004736P520
Q716	269 0083 901	Transistor DTA114EK	J5200114E0210	R37,38		Metal film 220 ohm 1/4W	C060022163050
				R39,40		Carbon film 4.7 kohm 1/5W	C00004726P520
D1,2	960 0117 501		K005035500010	R41,42		Carbon chip 15 kohm 1/10W	C200015360200
D5,6	960 0117 501		K005035500010	R43,44		Carbon film 1 kohm 1/5W	C00001026P520
D9	963 0020 309		K000013300520	R45		Carbon chip 33 kohm 1/10W	C200033360200
D10	960 0039 508	Diode D3SB20	K047004000010	R46		Carbon film 3.3 kohm 1/5W	C00003326P520
D11~14	960 0117 608	Diode 1N4004A	K040400400520	R47,48	244 2055 941		C060033165050
D15,16	963 0020 309	Diode 1SS133	K000013300520	R49~52		Carbon film 10 kohm 1/5W	C00001036P520
D17,18	960 0117 608	Diode 1N4004A	K040400400520	R53,54		Carbon film 100 ohm 1/5W	C00001016P520
	063 0030 300	Diode 1SS133	K000013300520	R55		Carbon chip 47 kohm 1/10W	C200047360200
D20	963 0020 309	B1000 100100		1 1500		TOAIDON CHO 47 KORIN 1/10/44	0200047300200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R57,58		Carbon film 33 kohm 1/5W	C00003336P520	R719		Carbon film 30 kohm 1/5W	C00003036P520
R59,60		Metal film 10 ohm 1/4W	C060010063050				Europe & U.K. Models
R63	244 2043 953	Metal film 470 ohm 1W	C060047165050	R719		Carbon film 15 kohm 1/5W	C00001536P520
R64		Carbon film 10 kohm 1/5W	C00001036P520				Asia Model
R65		Carbon film 47 kohm 1/5W	C00004736P520	R720		Carbon chip 3.3 kohm 1/10W	C200033260200
R66		Carbon chip 47 kohm 1/10W	C200047360200	R721~724		Carbon chip 10 kohm 1/10W	C200010360200
R67		Carbon film 4.7 kohm 1/5W	C00004726P520	R725		Carbon chip 22 kohm 1/10W	C200022360200
R68		Carbon film 4.7 ohm 1/5W	C0004R706P520	R726		Carbon chip 100 kohm 1/10W	C200010460200
R68		Metal film 47 ohm 1/4W	C060047063050	R727		Carbon film 68 kohm 1/5W	C00006836P520
R69		Carbon film 10 kohm 1/5W	C00001036P520	R728		Carbon film 47 kohm 1/5W	C00004736P520
R70		Metal film 1.2 kohm 1/4W	C060012263050	R729		Carbon chip 2.7 kohm 1/10W	C200027260200
R71,72	244 2052 973	Metal film 560 ohm 1W	C060056165050	R730,731		Carbon chip 10 kohm 1/10W	C200010360200
R73,74		Carbon chip 2.2 kohm 1/10W	C200022260200	R770		Carbon chip 1 kohm 1/10W	C200010260200
R90		Carbon chip 100 ohm 1/10W	C200010160200	R771		Carbon chip 2.2 kohm 1/10W	C200022260200
				R772		Carbon chip 100 kohm 1/10W	C200010460200
R201,202		Carbon chip 390 ohm 1/10W	C200039160200	R773		Carbon film 10 kohm 1/5W	C00001036P520
R203,204		Carbon chip 150 kohm 1/10W	C200015460200	R775		Metal film 100 ohm 1/4W	C060010163050
R205		Carbon chip 47 ohm 1/10W	C200047060200	R776		Carbon chip 22 kohm 1/10W	C200022360200
R206		Carbon film 47 ohm 1/5W	C00004706P520	R777		Carbon chip 5.6 kohm 1/10W	C200056260200
R207.208		Carbon chip 430 ohm 1/10W	C200043160200	R778,779		Carbon chip 200 kohm 1/10W	C200020460200
R209,210		Carbon chip 270 kohm 1/10W	C200027460200	R780,781		Carbon chip 2.7 kohm 1/10W	C200027260200
R211,212		Carbon chip 22 kohm 1/10W	C200022360200	R782,783		Carbon chip 200 kohm 1/10W	C200020460200
R213,214		Carbon film 470 kohm 1/5W	C00004746P520	R784		Carbon film 3.3 kohm 1/5W	C00003326P520
R216		Carbon film 100 ohm 1/5W	C00001016P520	R785		Carbon chip 3.3 kohm 1/10W	C200033260200
R217,218		Carbon chip 6.2 kohm 1/10W	C200062260200	R786,787		Carbon chip 100 ohm 1/10W	C200010160200
R219,220		Carbon chip 10 kohm 1/10W	C200010360200	R788,789		Carbon chip 5.6 kohm 1/10W	C200056260200
R221		Carbon chip 680 kohm 1/10W	C200068460200	R790		Carbon film 470 ohm 1/5W	C00004716P520
R223,224		Carbon chip 100 kohm 1/10W	C200010460200	R791~793		Carbon chip 470 ohm 1/10W	C200047160200
R227,228		Carbon chip 6.2 kohm 1/10W	C200062260200	R794,795		Carbon chip 10 kohm 1/10W	C200010360200
R239,R240		Carbon chip 10 kohm 1/10W	C200010360200	11701,700		Career one to term in the	
R241		Carbon film 100 kohm 1/5W	C00001046P520	R840		Metal film 100 ohm 1/4W	C060010163050
R242		Carbon chip 100 kohm 1/10W	C200010460200	R841		Carbon film 8.2 kohm 1/5W	C00008226P520
R245,246		Carbon chip 68 kohm 1/10W	C200068360200	R842		Carbon chip 1.8 kohm 1/10W	C200018260200
11240,240		Carbon omp concern in 1011	020000000000000000000000000000000000000	R843		Carbon chip 10 kohm 1/10W	C200010360200
R701		Metal film 47 ohm 1/4W	C060047063050	R844		Carbon chip 3.3 kohm 1/10W	C200033260200
R702		Carbon chip 100 ohm 1/10W	C200010160200	R845		Carbon chip 10 kohm 1/10W	C200010360200
R703		Carbon chip 3.3 kohm 1/10W	C200033260200	R846		Carbon film 1 kohm 1/5W	C00001026P520
R704		Carbon chip 680 ohm 1/10W	C200068160200	R847		Carbon chip 150 kohm 1/10W	C200015460200
R706		Carbon chip 22 ohm 1/10W	C200022060200	R848		Metal film 10 ohm 1/4W	C060010063050
11700	13	Carbon only 22 only 1710	Europe & U.K. Models	R849		Carbon film 1 kohm 1/5W	C00001026P520
R706		Carbon chip 56 ohm 1/10W	C200056060200	R850		Carbon chip 1 Mohm 1/10W	C200010560200
11700		Carbon only 30 only 1710	Asia Model	11000		Calban amp 1 Monin 17 vov.	Europe & U.K. Models only
R711		Carbon chip 10 kohm 1/10W	C200010360200				000001000000
R712		Carbon chip 5.1 kohm 1/10W	C200051260200	R852,853		Carbon chip 10 kohm 1/10W	C200010360200
R713		Carbon chip 10 kohm 1/10W	C200010360200	R854		Carbon film 10 kohm 1/5W	C00001036P520
R714		Carbon film 5.6 kohm 1/5W	C00005626P520				Europe & U.K. Models onl
R715		Carbon film 220 ohm 1/5W	C00002216P520	R855		Carbon chip 10 kohm 1/10W	C200010360200
R716		Carbon chip 10 kohm 1/10W	C200010360200				Europe & U.K. Models onl
R717		Carbon film 470 ohm 1/5W	C00004716P520				
R718		Carbon chip 82 ohm 1/10W	C200082060200	R901~927	-	Carbon chip 47 kohm 1/10W	C200047360200
		A DESCRIPTION OF THE PROPERTY OF	1.0	R928~930		Carbon chip 10 kohm 1/10W	C200010360200
				B 5		Carbon chip 180 ohm 1/10W	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R932,933		Carbon chip 10 kohm 1/10W	C200010360200	C25,26	960 9002 219	Electrolytic 4700 μF/50V	D040472087000
R934		Carbon chip 330 ohm 1/10W	C200033160200	∆ C27~29		Ceramic 0.01 µF/500V	D00410359D050
		ing sa	Europe & U.K. Models only	C30	254 4260 087	Electrolytic 10 μF/50V	D040100087050
R935		Carbon chip 220 ohm 1/10W	C200022160200	C31	254 4261 028	Electrolytic 100 μF/50V	D040101087060
		•	Europe & U.K. Models only	C32~34		Ceramic 0.01 μF/50V	D004103277050
R936		Carbon chip 330 ohm 1/10W	C200033160200	C35~38		Film 0.0047 μF/100V	D02047306C060
	-	•	Europe & U.K. Models only	C43		Ceramic 0.01 μF/50V	D004103277050
R937		Carbon chip 220 ohm 1/10W	C200022160200	C44	254 4260 087	Electrolytic 10 μF/50V	D040100087050
			Europe & U.K. Models only	C45	254 4250 042	Electrolytic 330 μF/6.3V	D040331081050
R938		Carbon chip 330 ohm 1/10W	C200033160200	C46	254 4254 051	Electrolytic 220 μF/16V	D040221083090
			Europe & U.K. Models only	C50	254 4256 088	Electrolytic 1000 μF/25V	D040102084050
R939		Carbon chip 220 ohm 1/10W	C200022160200				
4.			Europe & U.K. Models only	∆ C150	963 0020 804	Ceramic 0.0047 µF/250V	D008472089000
R940		Carbon chip 1 Mohm 1/10W	C200010560200				Europe & U.K. Models only
R941		Carbon film 10 kohm 1/5W	C00001036P520				
R942	,	Carbon film 470 ohm 1/5W	C00004716P520	C201,202		Ceramic chip 330 pF/50V	D010331167200
R943,944	- 	Carbon chip 1 kohm 1/10W	C200010260200	C203,204	254 4260 087	Electrolytic 10 μF/50V	D040100087050
R945		Carbon chip 150 ohm 1/10W	C200015160200	C205,206		Ceramic chip 330 pF/50V	D010331167200
R946		Carbon chip 180 ohm 1/10W	C200018160200	C207,208	254 4252 037	Electrolytic 100 μF/10V	D040101082060
R947		Carbon chip 150 ohm 1/10W	C200015160200	C209,210		Ceramic chip 0.001 μF/50V	D011102777200
R948		Carbon chip 180 ohm 1/10W	C200018160200	C211,212		Film 0.012 µF/100V	D02012306C060
R949		Carbon chip 270 ohm 1/10W	C200027160200	C213,214		Film 0.0033 µF/100V	D02033206C060
R950		Carbon chip 390 ohm 1/10W	C200039160200	C215,216	254 4260 058	Electrolytic 2.2 μF/50V	D0402R2087100
R951		Carbon chip 680 ohm 1/10W	C200068160200	C221,222		Ceramic chip 100 pF/50V	D010101167200
R954		Carbon chip 1 kohm 1/10W	C200010260200	C223		Ceramic 1000 pF/50V	D004102067060
R955		Carbon film 47 ohm 1/5W	C00004706P520	C224,225		Ceramic 100 pF/50V	D004101067060
R956,957		Carbon chip 10 kohm 1/10W	C200010360200	C227		Ceramic chip 0.01 µF/50V	D011103777200
R959~961		Carbon film 1 kohm 1/5W	C00001026P520	C228		Ceramic chip 0.022 μF/50V	D011223777200
R962~965		Carbon chip 1 kohm 1/10W	C200010260200	C229,230	254 4260 045	Electrolytic 1 μF/50V	D040010087070
R967,968		Carbon chip 1 kohm 1/10W	C200010260200	C231~234		Ceramic chip 100 pF/50V	D010101167200
R969		Carbon film 1 kohm 1/5W	C00001026P520	C235,236	254 4260 045	Electrolytic 1 μF/50V	D040010087070
R970,971		Carbon chip 1 kohm 1/10W	C200010260200				
R972		Carbon film 1 kohm 1/5W	C00001026P520	C701	254 4254 035	Electrolytic 47 µF/16V	D040470083080
R973,974		Carbon chip 1 kohm 1/10W	C200010260200	C704	254 4260 045	Electrolytic 1 μF/50V	D040010087050
R975		Carbon film 1 kohm 1/5W	C00001026P520	C705,706		Ceramic chip 0.01 μF/50V	D011103597200
R976~980		Carbon chip 1 kohm 1/10W	C200010260200	C707	254 4260 087	Electrolytic 10 μF/50V	D040100087050
R981		Carbon chip 10 kohm 1/10W	C200010360200	C708		Ceramic chip 0.022 μF/50V	D011223777200
				C709	254 4260 045	Electrolytic 1 μF/50V	D040010087050
VR702	960 0119 907	Semi fixed resistor 22 kohm	C544223015140	C710		Ceramic 100 pF/50V	D004101277050
VR703	960 0120 006	Semi fixed resistor 220 kohm	C544224015130	C711,712		Ceramic chip 0.022 μF/50V	D011223777200
				C713	254 4260 061	Electrolytic 3.3 μF/50V	D0403R3087100
04040	000 000			C714		Ceramic chip 100 pF/50V	D010101167200
	ORS GROUP		D040404407000	C715		Ceramic chip 33 pF/50V	D010330167200
C1,2		Ceramic chip 100 pF/50V	D010101167200	C716		Ceramic 0.001 μF/50V	D004102277050
C3,4		Ceramic chip 680 pF/50V	D010681167200	C717		Ceramic chip 100 pF/50V	D010101167200
C5~11		Ceramic chip 100 pF/50V	D010101167200	C718		Ceramic 22 pF/50V	D000220067050
C12,13	0.000	Ceramic chip 0.001 µF/50V	D011102777200	C719	254 4260 074	Electrolytic 4.7 μF/50V	D0404R7087250
C15	254 4254 019	Electrolytic 22 μF/16V	D040220083070	C720	254 4260 061	Electrolytic 3.3 μF/50V	D0403R3087100
C16	254 4260 061	Electrolytic 3.3 μF/50V	D0403R3087100	C721		Film 0.015 μF/100V	D02015306C060
C17	254 4260 045		D040010087070	C722	254 4260 087	Electrolytic 10 μF/50V	D040100087050
C18		Film 0.0047 μF/100V	D02047206C060	C723		Ceramic 0.01 μF/50V	D004103277050
C19,20	254 4256 949		D040101084060	C724		Ceramic chip 0.01 μF/50V	D011103597200
C23,24	254 4260 087	Electrolytic 10 μF/50V	D040100087050				

Remarks

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.
C725		Ceramic chip 6 pF/50V	D010060107200	C906	254 4254 035
C726		Ceramic chip 0.047 μF/50V	D011473597200	C960	
C727		Ceramic chip 15 pF/50V	D010150167200		
C728		Ceramic 0.1 µF/25V	D004104594050		
C729	254 4260 087	Electrolytic 10 μF/50V	D040100087050	-	ARTS GROU
C730		Ceramic 0.022 μF/50V	D004223597050	∆ A501	960 0142 301
C770	254 4260 045	Electrolytic 1 µF/50V	D040010087050		
C771	254 4260 061	Electrolytic 3.3 μF/50V	D0403R3087100	CF701,702	261 0097 003
C772	254 4260 032	Electrolytic 0.47 µF/50V	D040R47087050		
C773	254 4260 087	Electrolytic 10 µF/50V	D040100087050		
C774	1.	Film 0.047 μF/100V	D02047306C060	CF701,702	261 0120 006
C775		Ceramic chip 470 pF/50V	D010471167200		
C776	254 4260 061	Electrolytic 3.3 μF/50V	D0403R3087100		
C777		Ceramic 0.01 μF/50V	D004103277050	CF701,702	960 0043 400
C778	254 4254 035	Electrolytic 47 µF/16V	D040470083080		
C779		Ceramic chip 330 pF/50V	D010331167200	CF703	9LB P005 01
C781	254 4260 087	Electrolytic 10 µF/50V	D040100087050	CF704	261 0079 005
C782,783		Ceramic chip 270 pF/50V	D010271167200		
0, 02,,00			Europe & U.K. Models	CN1	960 0118 801
C782,783		Ceramic chip 470 pF/50V	D010471167200	CN6	960 0118 306
			Asia Model	CN202	960 0118 607
C785	254 4254 035	Electrolytic 47 μF/16V	D040470083080	CN501	960 0118 908
C786,787		Film 0.0047 µF/100V	D02047206C060	CN502	960 0118 908
C788,789	254 4260 058	Electrolytic 2.2 μF/50V	D0402R2087100		
C790,791		Ceramic chip 0.001 µF/50V	D011102777200		
				CN502	960 0142 408
C840	254 4254 035	Electrolytic 47 μF/16V	D040470083080		
C841,842		Ceramic chip 22 pF/50V	D010220167200	CN601	960 0118 704
C843		Film 0.027 μF/100V	D02027306C060	CN601	960 0119 402
C844	254 4260 045	Electrolytic 1 µF/50V	D040010087050	CN901	960 0119 004
C845		Ceramic 0.01 μF/50V	D004103277050		
C846		Ceramic chip 0.01 µF/50V	D011103597200	 ∆ F501	960 0142 505
C847	254 4254 035	Electrolytic 47 μF/16V	D040470083080	 Æ F502	960 0142 602
C848		Ceramic chip 100 pF/50V	D010101167200		
C849		Ceramic 100 pF/50V	D004101277050	▲ F503	960 0142 709
			Europe & U.K. Models only		
C850,851		Ceramic chip 27 pF/50V	D010270167200	FL901	960 0007 103
			Europe & U.K. Models only	ONDA	000 0000 000
C852	254 4254 019	Electrolytic 2.2 μF/50V	D0402R2087100	GND1	960 9006 600
			Europe & U.K. Models only	Had	
C853	254 4254 035	Electrolytic 47 μF/16V	D040470083080	J101	
			Europe & U.K. Models only	J103~110	
C854		Ceramic chip 560 pF/50V	D010561167200	J149	
			Europe & U.K. Models only	J751	
C855,856	254 4254 035	Electrolytic 47 µF/16V	D040470083080		
			Europe & U.K. Models only		
C857		Ceramic chip 0.01 μF/50V	D011103597200	J752	
			Europe & U.K. Models only	J754,755	
				J757~761	
C901,902		Ceramic chip 0.01 μF/50V	D011103777200	J763~768	
C903	254 4254 019	Electrolytic 22 μF/16V	D040220083110	J925~928	
C904,905		Ceramic chip 0.01 μF/50V	D011103777200	J932,933	
	1	The second second	The state of the state of	J938	

Ref. No.	Part No.	Part Name	Remarks	
C906	254 4254 035	Electrolytic 47 μF/16V	D040470083070)
C960		Ceramic chip 0.01 µF/16V	D005103773530)
				ı
	: 			
OTHER P	ARTS GROU	P		Q'ty
₫ A501	960 0142 301	AC outlet	G435040110000	1
1.44				
CF701,702	261 0097 003	Ceramic filter SFE10.7MS3GH-A	E430107000150	2
			Europe & U.K.	
			Models	
CF701,702	261 0120 006	Ceramic filter SFE10.7MS3GK-A	E43010R700510	2
		J.	Europe & U.K.	
			Models	
CF701,702	960 0043 400	Ceramic filter SFE10.7MA5	E43010R700300	2
GF701,702	900 0043 400	Ceramic inter of E10.7NA	Asia Model	-
05700	01 D D005 04	O	14	1
CF703	9LB P005 01	Ceramic filter BFU450C4N	E431450000110	
CF704	261 0079 005	Ceramic resonator CSB456F11	E830456000050	1
0114	000 0110 001	0.0	1 100506700000	1
CN1	960 0118 801	8P connector base	L102526700800	
CN6	960 0118 306	9P connector cord	L000101090010	1
CN202	960 0118 607	12P shield cord	L000251120010	1
CN501	960 0118 908	2P connector base	L108039602010	1
CN502	960 0118 908	2P connector base	L108039602010	1
			Europe & U.K.	
			Models	
CN502	960 0142 408	3P connector base	L108353280310	1
			Asia Model	
CN601	960 0118 704	7P connector base	L102526700700	1
CN601	960 0119 402	7P connector base	L102526807010	1
CN901	960 0119 004	16P connector base	L140520041610	1
 Å F501	960 0142 505	Fuse 250V 1.25A	G650122251160	1
 ∆ F502	960 0142 602	Fuse 250V 2.5A	G650252251160	1
			Asia Model only	Å
 ∆F503	960 0142 709	Fuse 250V 1A	G650102251160	1
FL901	960 0007 103	FLD (11-BT-127GK)	K530000290010	1
GND1	960 9006 600	GND TERMINAL	3790040876010	1
CITE	000 0000 000	dito reminite		
J101		Carbon chip 0 ohm 1/8W	C200000061300	1
J103~110		Carbon chip 0 ohm 1/8W	C200000061300	
J149		Carbon chip 0 ohm 1/8W	C200000061300	1
		'		
J751		Carbon chip 0 ohm 1/8W	C200000061300	' '
			Europe & U.K.	
			Models only	
J752		Carbon chip 0 ohm 1/8W	C200000061300	
J754,755		Carbon chip 0 ohm 1/8W	C200000061300	
J757~761		Carbon chip 0 ohm 1/8W	C200000061300	5
J763~768		Carbon chip 0 ohm 1/8W	C200000061300	6
J925~928		Carbon chip 0 ohm 1/8W	C200000061300	4
J932,933		Carbon chip 0 ohm 1/8W	C200000061300	2
J938		Carbon chip 0 ohm 1/8W	C200000061300	1

Part Name

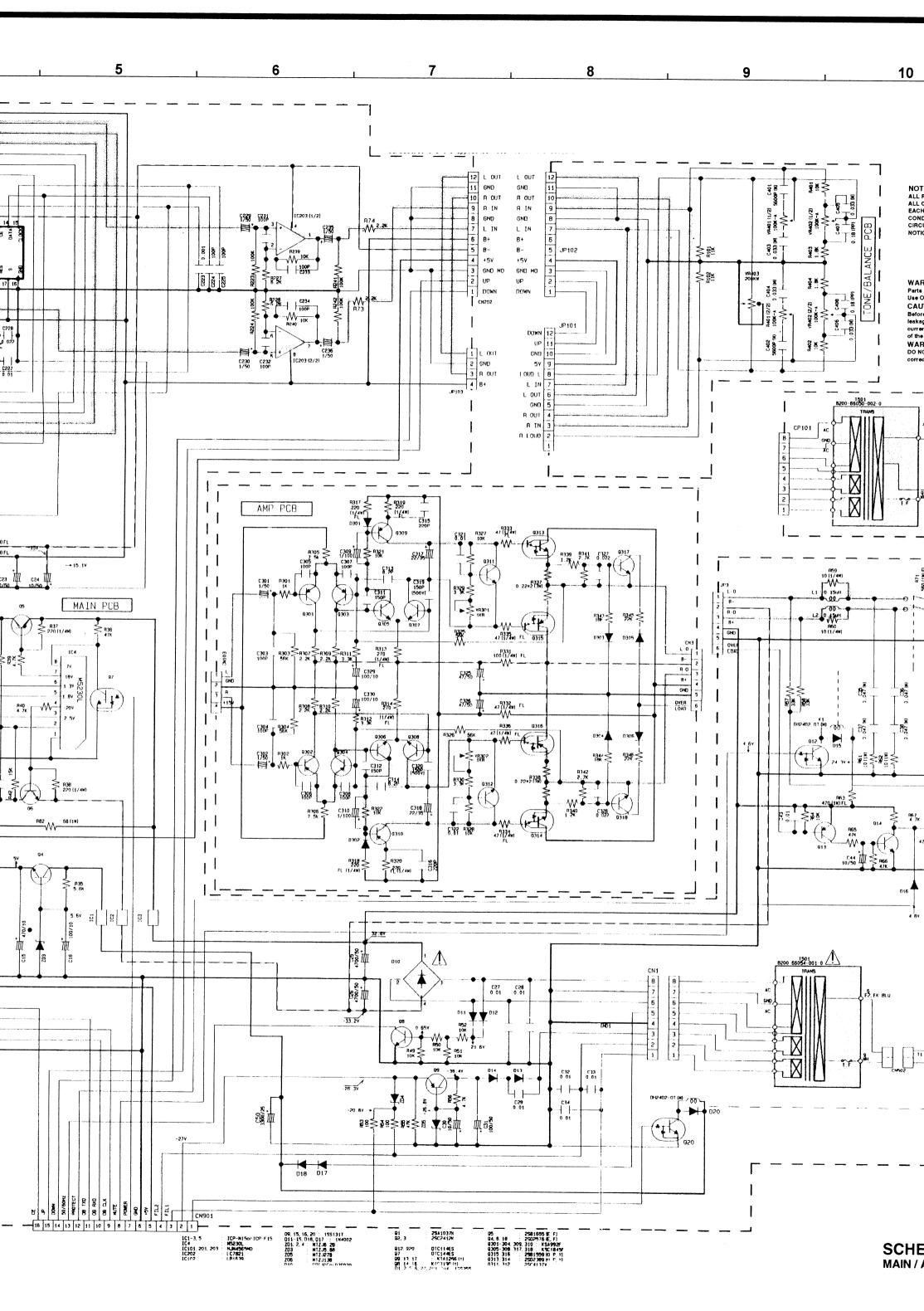
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
J960		Carbon chip 0 ohm 1/8W	C200000061300	1	X901	399 0243 903	Ceramic 8.38 MHz	E8308R3800010	1
JACK1	960 0004 504	4P pin jack	G602040045000	1			Heat sink	2120000400010	1
JACK2	960 0005 406	6P pin jack	G603060046020	1			Heat sink	2120000810000	2
JACK3,4	960 0004 407	Mini jack	G401031102010	2			Wire clamp	4330000120000	1
JACK5	960 0093 007	4P speaker terminal	G612041037310	1		960 0005 804	Fuse holder	G645000050010,	2
JACK201	960 0004 504	4P pin jack	G602040045000	1				for F501,503	
JACK601	960 0069 400	Mini jack (G)	G401035180010	1		960 0117 909	Fuse holder	G646000020010,	1
JACK701	960 0120 307	Antenna terminal	G59004046000A	1				for F502	
į.								Asia Model only	
JP3	960 0118 403	6P connector cord	L000131060010	1		960 0050 309	FL supporter	4070020076010,	1
JP5	960 0120 501	13P connector base	L140520041310	1				for FL901	
JP101	960 0120 404	9P connector base	L101530140910	1		960 9000 114	Screw 3×8 CBTS(B)-Z	B020030081B10	3
JP103	960 0118 500	2P+2P shield cord	L000201040050	1		-			
JP901	960 0119 606	16P cable holder	L110510161610	1					
JP901	960 0119 703	16P flat cable	L322121162610	1					
JP902	960 0119 509	13P cable holder	L110510161310	1					
JP902	960 0119 800	13P flat cable	L322321132610	1					
JP903	960 0119 305	4P connector cord	L000650040010	1					
K1	960 0091 203	Relay (DH24D2)	G680000220010	- 1					
∆K2	960 0118 209	Relay (HR-CR7)	G680000210000	1					
			Europe & U.K.						
			Models only						
L1,2	960 0005 008	Inductor 0.15 µH	D330R15000000	2					
L701	960 0007 365	Inductor 1 µH	D3301R0700520	1					
L702	960 0010 307	Inductor 10 µH	D330100700520	1					
RM901	960 0050 105	Remocon sensor	E940460200010	1					.:
S901~909	960 0069 206	Tact switch	G180215050010	9					
∆SW101	963 0027 700	Slide switch	G060040550010	1					
			Asia Model only						
			B					,	
T701	960 0007 336	MW RF osc. coil	D940209000010	1	the constitution of the co				
T702	960 0007 349	FM IF coil	D951731561100	1					
T703	960 0007 352		D951731561200						
T704	960 0007 323		D950209000010						-
T705	960 0037 607	Market Control	E403126832410	1					
T706,707	960 0050 600	MPX filter	E401253503100	2					
			E000E04000040					-	
TU701	960 0092 008	FM tuner pack	E900504000010	1					
			E00075000007						
X701	960 0120 103	1 *.	E8007R2000070						
X702	960 0091 805	Crystal 4.332 MHz	E8004R3320050	1					
			Europe & U.K.						
			Models only						
X703	960 0142 806	Ceramic 4.00MHz	E830400000070	1				1.	
			Europe & U.K.					**	
			Models only						
L					J L			241	

AMP. P.W.B. UNIT ASS'Y

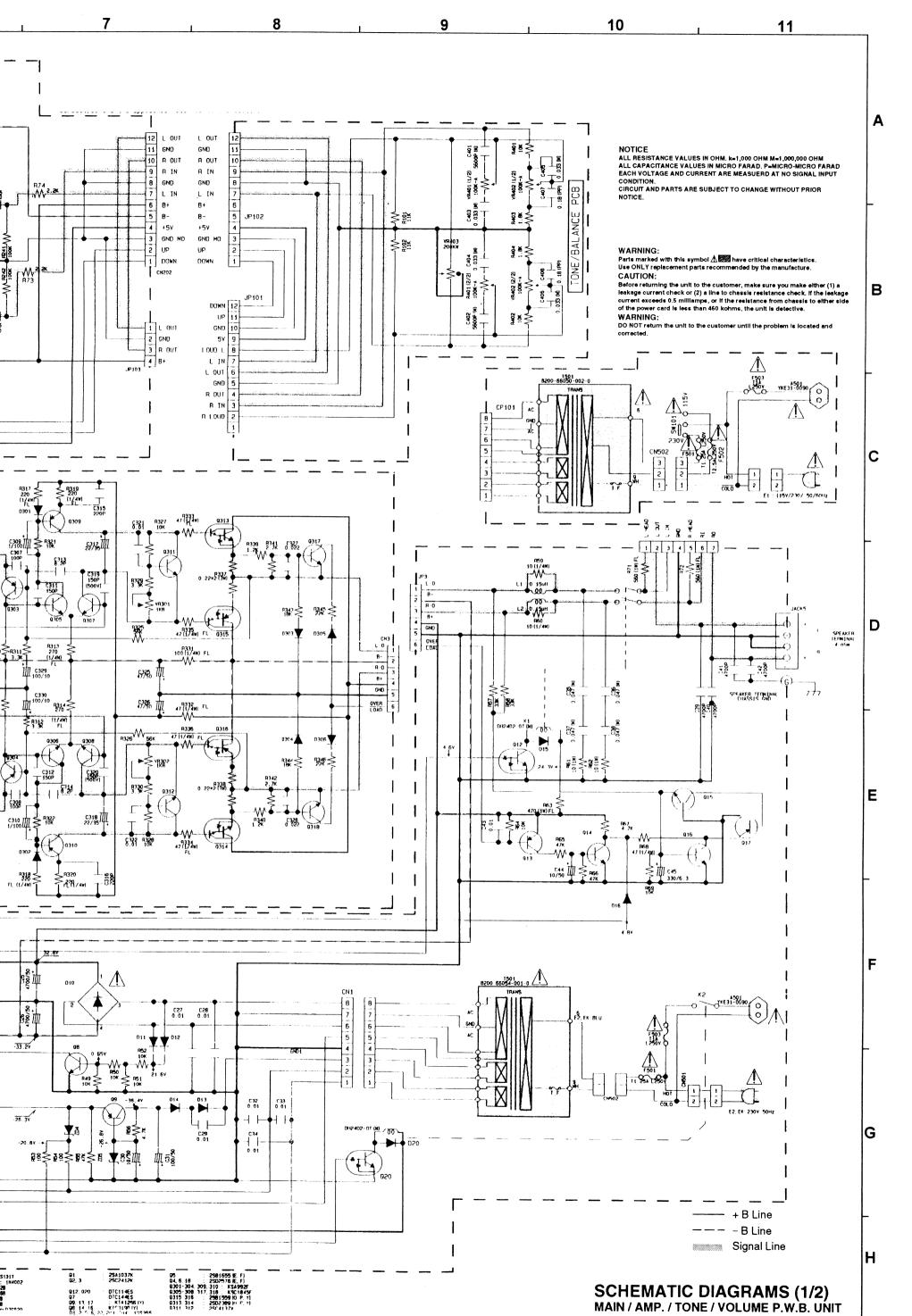
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	\Box
	OUCTORS G		Hemarks	C313,314	T dittito:	Ceramic 8 pF/50V	D000080117060	-
			J127163900010	C315,316		Ceramic 220 pF/50V	D004221277050	- 1
IC102	263 0476 002	IC LB1639	312/103900010	C317,318	254 4260 993	Electrolytic 22 µF/35V	D040220085050	- 1
0004 004	071 0111 000	Turnistas KOA000F	J5000992F0050	∆ C319,320	201 1200 000	Ceramic 150 pF/500V	D00015106D050	
		Transistor KSA992F	J5021845F0000	C321,322		Ceramic 0.01 μF/50V	D004103277050)
		Transistor KSC1845F	J5000992F0050	C325,326	254 4261 015		D040470087060	
		Transistor KSA992F	J5021845F0000	C327,328		Ceramic 0.022 μF/50V	D004223597050	- 1
Q317,318	273 0207 003	Transistor KSC1845F	J5021045F0000	C329,330	254 4252 037	Electrolytic 100 µF/10V	D040101082060	- 1
D004 000	000 0000 000	Diode 1SS133	K000013300520				-	
D301~306	963 0020 309	Diode 188133	K000013300320	C401,402		Film 0.0056 μF/100V	D02056206C06	0
	-		1 -	C403~406		Film 0.033 µF/100V	D02033306C06	0
RESISTOR	S GROUP			C407,408	256 1035 004	Metalized 0.18 µF/50V	D023184067050	o
R101,102		Carbon chip 11 kohm 1/10W	C200011360200			•	-	- 1
							1 .	014
R301,302		Carbon film 1 kohm 1/5W	C00001026P520	l	ARTS GROU			Q'ty
R303,304		Carbon film 56 kohm 1/5W	C00005636P520	CN3		6P connector base	L102526806010	1
R305,306		Carbon film 7.5 kohm 1/5W	C00007526P520	CN4	960 0117 103	12P connector base	L101352371210	
R307~310		Carbon film 2.2 kohm 1/5W	C00002226P520	CN103	960 0116 405	4P connector base	L101530150410	1
R311,312		Carbon film 1.5 kohm 1/5W	C00001526P520					
R313,314		Metal film 270 ohm 1/4W	C060027163050	J130-134	_	Carbon chip 0 ohm 1/8W	C200000061300	5
R317~320		Metal film 220 ohm 1/4W	C060022163050					
R321,322		Carbon film 15 kohm 1/5W	C00001536P520	JP101	960 0116 900	12P connector base	L101530141210	1
R325,326		Carbon film 56 kohm 1/5W	C00005636P520	JP102	960 0116 803	12P connector base	L101353361210	1
R327,328		Carbon film 10 kohm 1/5W	C00001036P520					
R329,330		Carbon film 3.3 kohm 1/5W	C00003326P520					
R331		Metal film 100 ohm 1/4W	C060010163050					
R332~336		Metal film 47 ohm 1/4W	C060047063050					
R337,338	960 0091 504	Winding 0.22 ohm 3W	C145R22077610		The state of the s			
R339,340		Carbon film 1.2 kohm 1/5W	C00001226P520					
R341,342		Carbon film 2.7 kohm 1/5W	C00002726P520					
R343		Carbon film 18 kohm 1/5W	C00001836P520					
R344,345		Carbon film 22 kohm 1/5W	C00002236P520		-			
R346		Carbon film 18 kohm 1/5W	C00001836P520					
D 404 400		Carbon film 10 kohm 1/5W	C00001036P520					
R401,402		Carbon film 1.8 kohm 1/5W	C00001826P520					-
R403,404		Calbuit fillit 1.8 Kollitt 1/344	0000010201 320					
VR101	960 0117 006	Variable resistor 100 kohm	C495121400260					
VR301,302	960 0116 308	Semi fixed resistor 1 kohm	C544102015110					
VR401,402	960 0116 706	Variable resistor 100 kohm	C451121400100		-			
VR403	960 0116 609		C451112400010					
CAPACIT	ORS GROU	P		11				-
C113	254 4260 087	T	D040100087050	71			4	
C114		Ceramic 0.01 μF/50V	D004103277050					
0000000	054 4000 0 10	Flooring to 1 - F(400)/	D040010000000					
C301,302	254 4263 042	1 .	D040010086060					-
C303~308	054 4000 5 :0	Ceramic 100 pF/50V	D004101277050					
C309,310	254 4263 042	1	D040010086060 D004151277050					
C311,312		Ceramic 150 pF/50V	D004131277030					

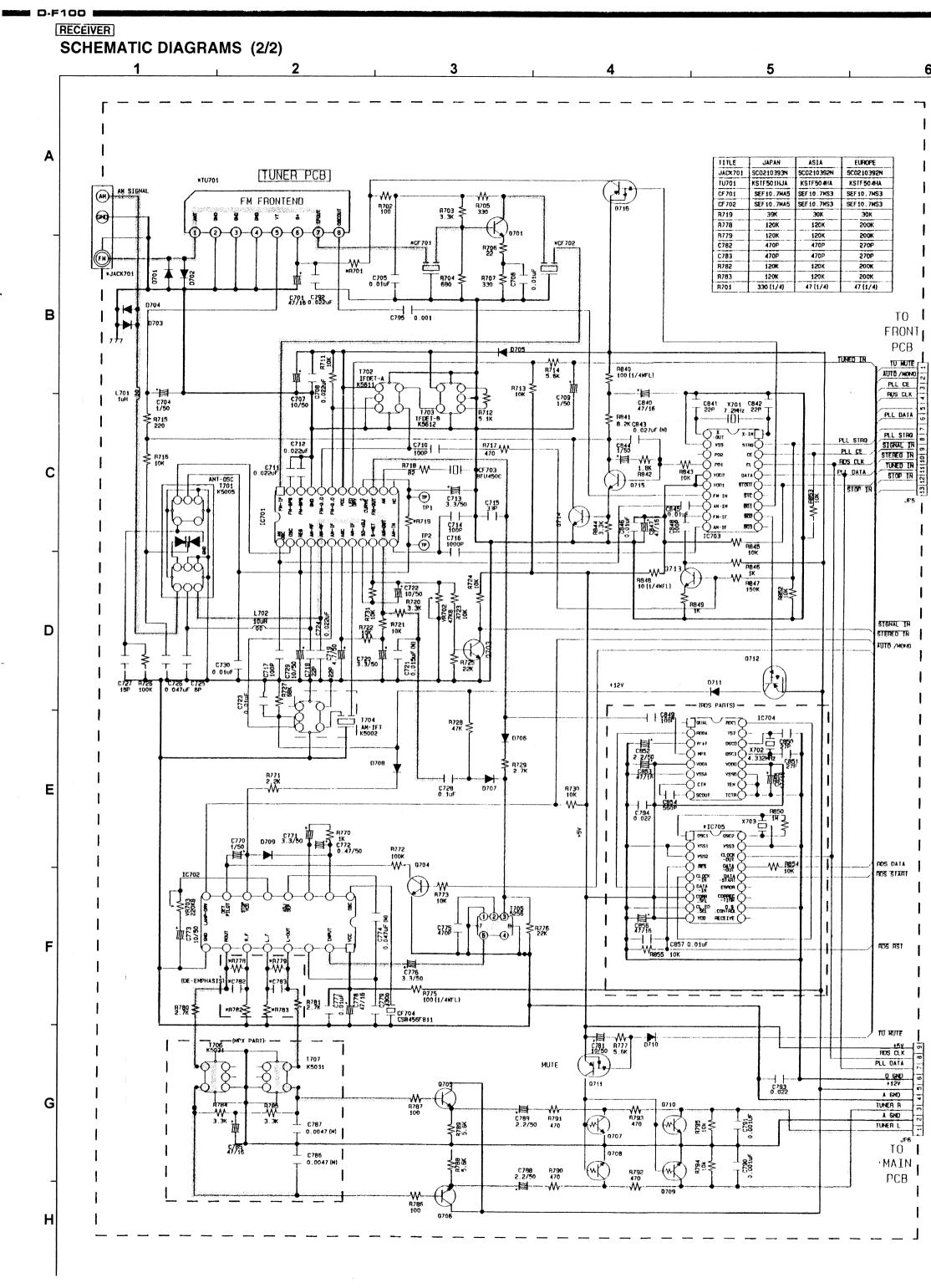
PARTS LIST OF EXPLODED VIEW

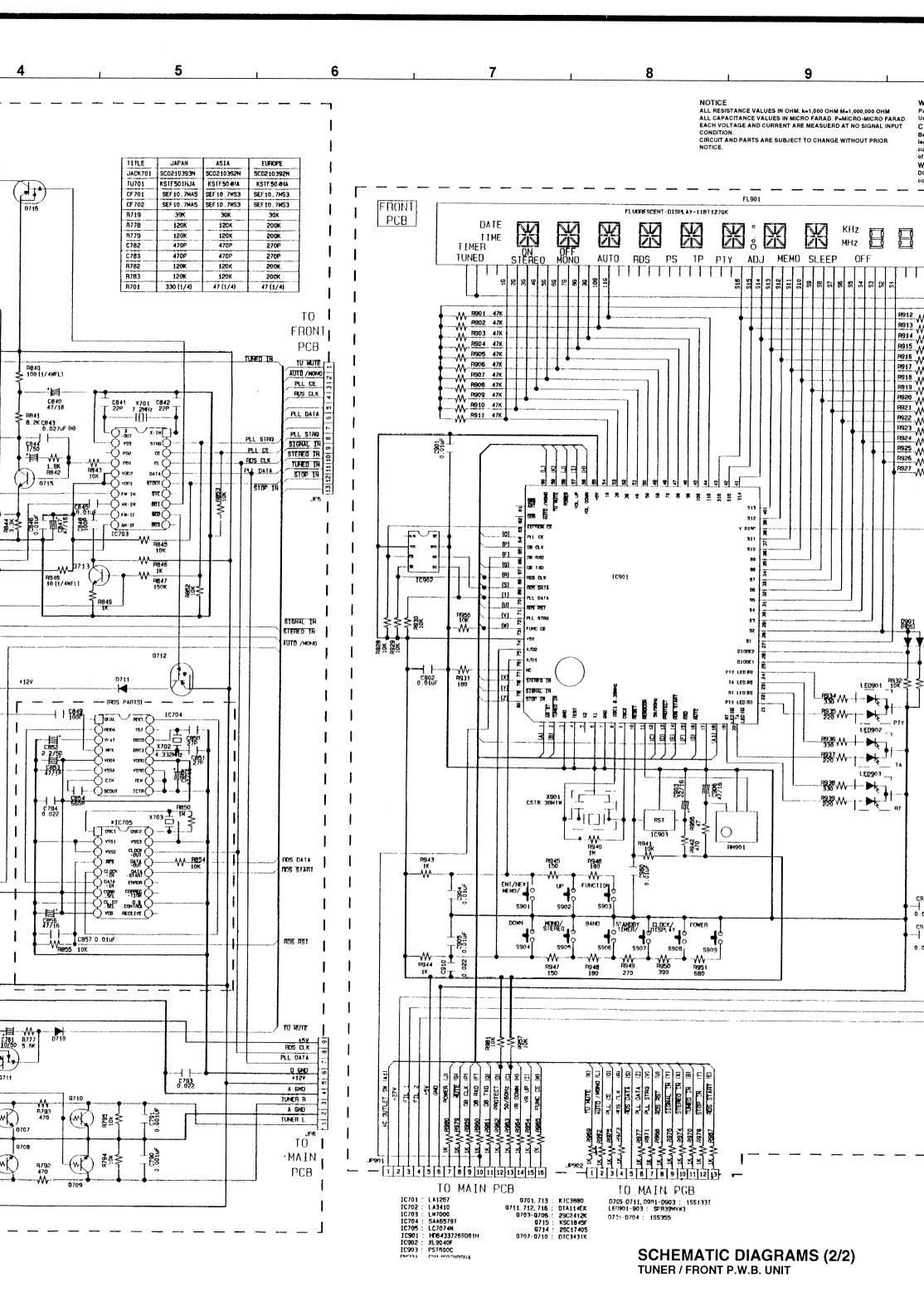
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. N	۱o.	Part No.	Part Name	Remarks	Q'ty
	960 0116 201	Amp. P.W.B. unit ass'y	7025HK9808011	1		31	960 0143 106	Function lens	3710210003000	1
- 7		Tone P.W.B. unit							Europe & U.K. Models only	
		Volume P.W.B. unit				32	960 0114 407	Top cover	3000210006000	1
_ 23		Amp. P.W.B. unit			*	33		Fuse cap	4500020001010, for F503	-1
14		Main P.W.B. unit ass'y	7025HK9808010	1					Europe & U.K. Models	
	000 0111 220	,	Europe & U.K. Models	s	*	33		Fuse cap	4500020001010,	2
14	960 0117 213	Main P.W.B. unit ass'y	7025HK9808040	1					for F501,502	
	000 0117 210	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Asia Model						Asia Model	
17		Tuner P.W.B. unit			*	34	960 0120 705	7P connector cord	L000401070010, CN601	1
29		Front P.W.B. unit								
		T TOTAL TITLE COM								$\perp \rightarrow$
	960 0115 707	DENON badge	5630210008000	1	SCR	EWS	,	ı		
2			3067210028010	1		A	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10	21
•	000 01 12 000	Tronk paner	Europe & U.K. Models			Α	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10,	2
2	960 0114 504	Front panel	3067210028020	1					for SW101	
ĺ '	. 300 0114 304	Trong panor	Asia Model	'					Asia Model only	
(960 0115 309	Display window	5077210043010	1		В	960 9000 130	Screw 3×8 CFTS(B)-B	B020030083F10	2
		1 ' '	5087210011010	3		С	960 9000 101	Screw 3×8 CBTS(S)-Ni	B010330084B10	1
			5080210051000	1		, D	960 9000 185	Screw 3×14 CHTS(B) SW W-Z	B018230141H10	6
			3217210001010	1		Ε	960 9000 156	Screw 3×17 CBTS(B)-Z	B020030171B10	1
	1		4050020075010	4		F	960 9000 114	Screw 3×8 CBTS(B)-Z	B020030081B10	16
			4007000061010	2		G	960 9000 172	Screw 4×8 CBTS(S) SW W-Z	B028940081B10	4
11	i i			1						
1		P.W.B. bracket	4010210066000	2						
1:	1		4000210001000							
1:			3200210056000	1						
1:			2410040353010	4	ll					
1		<u> </u>	4380040162010	1 1						
A 2	960 0032 30	AU cord	L061000410010							
			Europe & U.K. Models L061000290010	1						
Δ 2	960 0109 20	AC COIG	U.K. Model	'					Assertion	
* 00	1 000 0140 00	AC cord angle	L068000000040	1						
Æ 20-	1 900 0143 00	AC cord ass'y	U.K. Model only	1'						
	1 960 0114 82	Back chassis	3207210016010	1						
2	900 0114 02	Dack Chassis	Europe & U.K. Models		11					
l .		Do alcabassia	3207210016110	1						
4	1 960 0114 81	Back chassis	Asia Model	'						
	0 000 0114 10	1 last sink breekst	4010210016000	1	11					
1		Heat sink L bracket		2	11					
23-	1 900 0090 10	7 Transistor 2SB1559Y	J5011559Y0170, Q315,316	-						
	0000011100	7 Transister 0004107		0	II					
23-	2 960 0114 30	Transistor 2SC4137	J5024137V0130,	2						
	0 000 0000 00	0 Transister 00D00001	Q311,312							
23	3 960 0090 00	0 Transistor 2SD2389Y	J5032389Y0170,	2	H					
l .		O I I I I I I I I I I I I I I I I I I I	Q313,314		ll .					
1		3 Heat sink R bracket	4010210026000		11					
1		9 Main heat sink	2120210028000	1						
	26 960 0115 20		4420200003010	1	H					
Δ :	27 960 0137 50	7 Power trans.	8200660540010, T10	1	II					
		. _	Europe & U.K. Model	1	II					
Δ :	27 960 0137 60	4 Power trans.	8200660500020, T10	л 1						
			Asia Model		11					
1		1 P.W.B. support	4070001601010	1	11					
	30 960 0114 70	8 Remocon window	5070210033000	1	11					
					<u> </u>	DOWNSON PARTY				



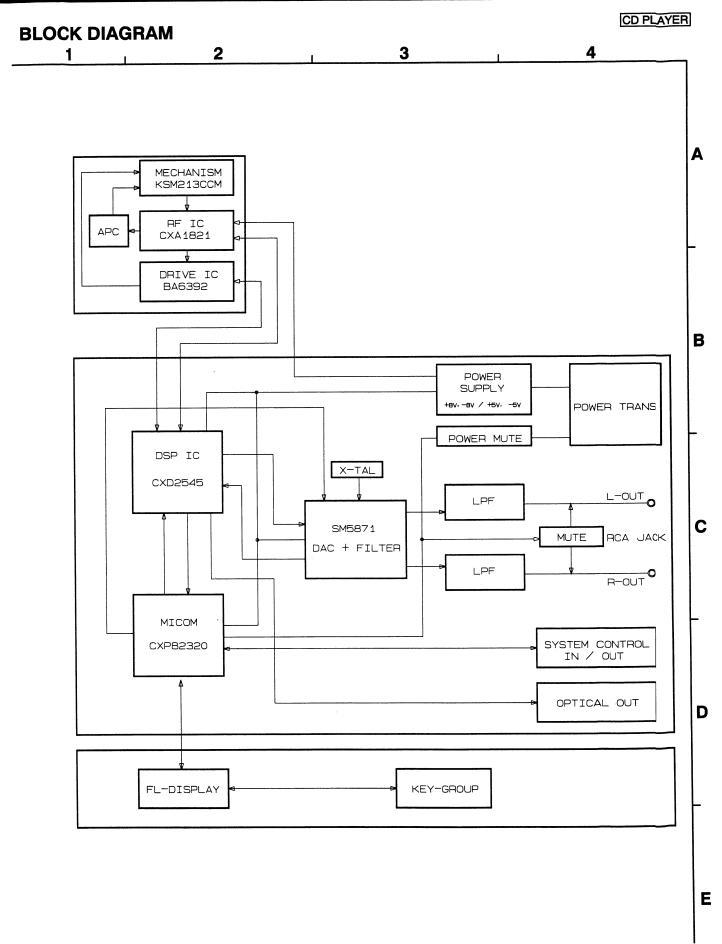
RECEIVER







10 Parts marked with this symbol 🛦 🌇 have critical characteristics ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P-MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION. Use ONLY replacement parts recomme CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460 kohms, the unit is detective. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR WARNING:
DO NOT return the unit to the customer until the problem is located and corrected. В DATE TIME MHZ TIMER STEREO PS TUNED OTUA ADS TP ADJ MEMO SLEEP **OFF** PTY M R902 47K M R903 47K M R904 47K M R905 47K R906 47K ₩ R907 47K R918 W 47K M R908 47K R919 W 47K M R909 47K R920 M 47K M R910 47K P921 W 47K W R911 47K R923 W 47K R925 W 47K R927 W 47K 82 SK 64 SK 82 SK 83 SK 84 SK 85 SK 508 512 V D190 (0) 511 (P) DB CLX 510 (E) DIS TXD (0) ROS CLK (A) (S) PLL DATA (1) _W_ RUS RST (Y) PLL STRO (M) FUNC CE TITLE JAPAN ASIA EUROPE 0901 X 1/02 D100E5 A/01 DIODES PTY LED (R) F STEREO IN 0.010F LED901_193₹\$ \$193₹ TA LED (P) STORAL TH redaus LED903 32/36 CSTB. 38HTW **₩**W-1-**>**ŧ RST \bigcirc IC903 PH901 P946 -₩-FUNCTION 0 055 Caso 5903 **S90**! DOWN _-| |-cast 0.022 驗♦ફ麟 1K-W 8927 P 1 1K-W 8928 R 1 1K-W 8928 R 1 1K-W 8928 R 1 1K-W 8929 R 1 1K-W 8929 R 1 1K-W 8939 S 1 1K 2 5 5 8 2 E 8 JP902 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 1 2 3 4 5 6 7 8 9 10 11 12 13 TO MAIN PCB TO MAIN PGB + B Line 10 MATE
10701: LA1267
10702: LA3410
10703: LW7000
10704: SAA65791
10705: L07074M
10901: H064337265081H
10902: XL9040F
10903: PST5000 0701, 713 : KTC3880 0711, 712, 716 : DTA114EK 0703-0706 : 29C2412K 0715 : KSC1845F 0714 : 29C1740S 0707-0710 : DTC3431K D705-D711, D901-D903 : 15S133T LED901-903 : SPR39MVW3 D701-D704 : 1SS355 Signal Line SCHEMATIC DIAGRAMS (2/2) **TUNER / FRONT P.W.B. UNIT**

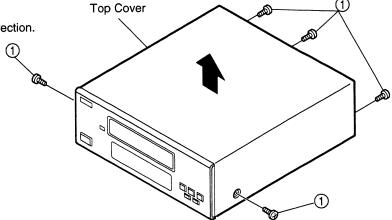


DISASSEMBLY

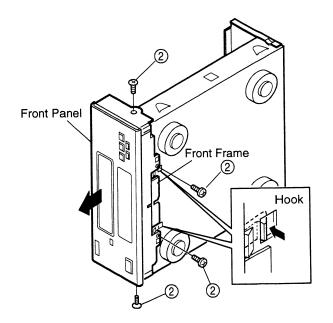
(Follow the procedure below in reverse order when reassembling)

1. Top Cover & Front Panel

- (1) Remove 5 screws (1) fixing the Top Cover.
- (2) Detach the Top Cover as shown in the arrow direction.



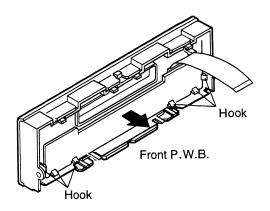
- (3) Remove 4 screws ② on the bottom and both sides.
- (4) Disconnect 29P FPC and 7P flat cable from their connector bases.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

FRONT P.W.B.

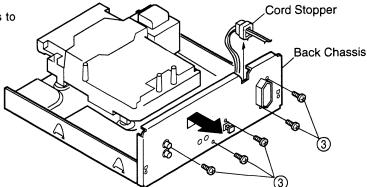
Detach the Front P.W.B. to the arrow direction with releasing 6 Hooks.



3 Back Chassis

(1) Take off the Cord Stopper from the Back Chassis.

(2) Remove 5 screws ③, and detach the Back Chassis to the arrow direction.

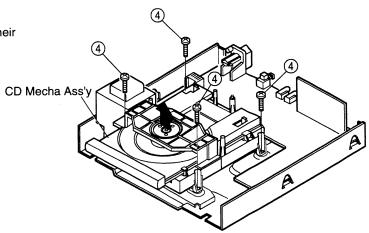


4. CD Mecha. Ass'y

(1) Remove 4 screws 4 fixing the CD Mecha. Ass'y.

(2) Disconnect 20P FPC and 5P Connector Cord from their connector bases.

(3) Detach the CD Mecha. Ass'y to the arrow direction.

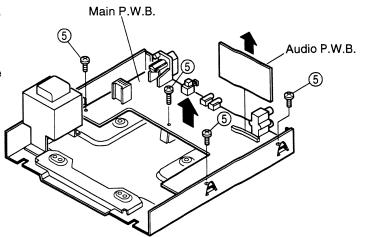


AUDIO P.W.B.

(4) Detach the Audio P.W.B. by disconnecting from its connector as shown in the arrow direction.

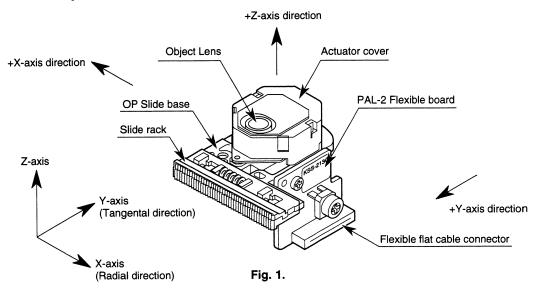
MAIN P.W.B.

(5) Remove 4 screws (5), and detach the Main P.W.B. to the arrow direction.



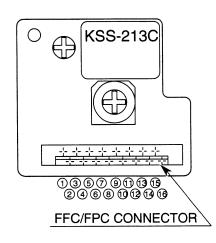
NOTE FOR HANDLING OF THE LASER PICK-UP

Descripiton of components

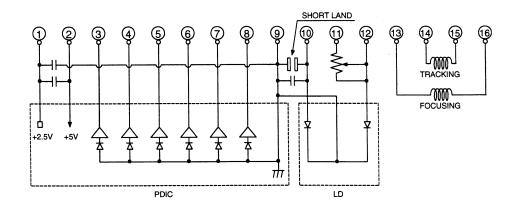


Pin connection diagram

Optical pick-up connector



Terminal No.	Na	ıme	IN/OUT
1	PD IC	Vc	IN
2		Vcc	IN
3		E	OUT
4		D	OUT
5		Α	OUT
6		В	OUT
7		С	OUT
8	•	F	OUT
9	LD PD IC	GND	IN
10	LD	LD	IN
11		VR	IN
12	•	PD	OUT
13	FCS	(+)	IN
14	TRK	(+)	IN
15	TRK	(-)	IN
16	FCS	(-)	IN



Handling instructions

This model is assembled and precision adjusted in maker's plant. Never attempt to disassemble or readjust it. Follow the instructions below when handling.

1. General

(1) Storage

Store and transport this model with the +Z axis pointing up or +Y axis pointing down. (See Fig. 1.)

Avoid storing the KSM-213 series in hot, humid or dusty conditions.

(2) Handling

This model is a precision unit. Be careful not to subject it to shocks by dropping or rough handling.

2. Laser diode

(1) Shield your eyes from the laser beam

The output from the LD is only 400 μ W maximum after going through the objective lens. However, the intensity of the focused beam reaches about $0.7\times10^4\,\text{W/cm}^3.$ Never look directly into the LD or observe the laser beam through another lens or mirror. If you need to view the beam, use an infrared viewer or an ITV camera.

(2) Toxicity of As

The LD chip is manufactured from GaAs and GaAlAs, which contains toxic As(Arsenic). The toxicity of As in this form is far lower than other As compounds such as As2O3 and AsCl3, and the As content of one chip is very small

However, avoid putting the chip in an acid or alkali solution, heating it over 200°C, or putting it your mouth. Defective LDs from the production line and parts removed in servicing should be disposed of with due care.

(3) Avoid current surges and electrostatic discharges

The LD may deteriorated if its output is too high and damage may occur if it is exposed to large currents for even a short time. Protect the LD drive circuit from current surges caused by switches or other sources. An electrostatic discharge from the human body may destroy the LD instantaneously if it is handled carelessly. LD terminals are factory strapped before shipment to protect LD from electrostatic discharges during transportation. For safe handling of the LD, ground your body, measuring equipment, jigs, and tools during installation. Use of a grounding mat on the workbench and floor is recommended. After connector insertion, unstrap the LD terminal with a soldering iron with its metallic tip grounded or worse insulation resistance is 10 megaohms or more (at 500V DC) five minutes after it is tuned on. The temperature of the soldering iron tip must be 320°C or below (30W) and the unstrapping should be performed quickly.

3. Actuator

(1) Actuator

The performance of the actuator may be affected if a magnetic material is located nearby, since the actuator has a strong magnetic field. Do not allow foreign materials to enter through gap in the cover.

(2) Lens cleaning

Dust or dirt on the objective lens has an adverse affect on pick-up performance. Gently wipe the lens using tissue moistened with isopropyl alcohol.

4. Lubrication

This drive unit need no lubrication when installed nor during use. Should lubrication become necessary use only grease "G-474B" or "G-474BY"(KANTO KASEI KOGYO) in the feedbearings and in the feed mechanism. Other types of oil or grease must not be used!

5. Handling

Hold the diecast chassis when handling the drive unit. Note that the LD and PD may be damaged if you come in contact with any of circuit boards.

Precautions in use

1. APC Circuit

The output laser power must be controlled with the built-in monitor photodiode, since laser power changes with temperature. To prevent the characteristics dispersion of the monitor photodiode, the relation between the potentiometer(VR) attached to the pick-up and the monitor photodiode is factory adjusted so that the RF output will be constant.

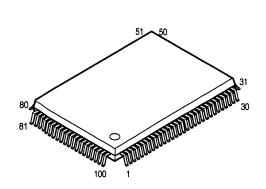
2. Connections

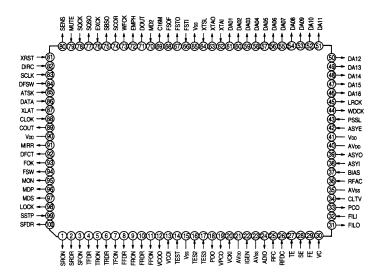
Use the specified connectors for electrical connections. The eye pattern may deteriorate if a digital noise source such as a microcomputer is positioned near the harness from the photodiode. The laser may deteriorate if the actuater or laser diode connection is poor, securely connect these connectors.

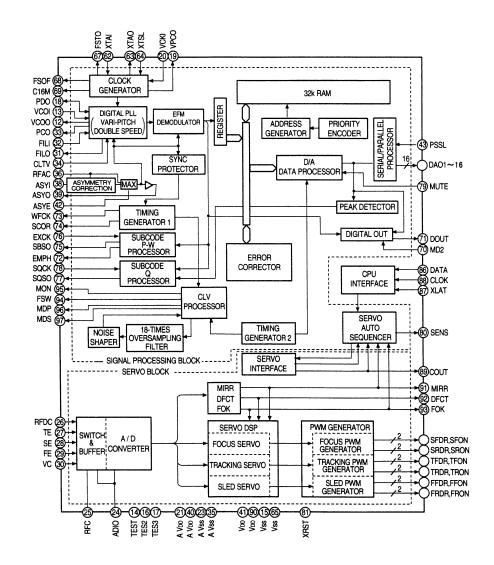
SEMICONDUCTORS

• IC's

CXD2545Q (IC103)







CXD2545Q Terminal Function

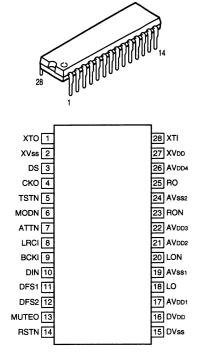
			5
Pin No.	Symbol	1/0	Function
1	SRON	0	Sled drive output signal.
2	SRDR	0	Sled drive output signal.
3	SFON	0	Sled drive output signal.
4	TFDR	0	Tracking drive output signal.
5	TRON	0	Tracking drive output signal.
6	TRDR	0	Tracking drive output signal.
7	TFON	0	Tracking drive output signal.
	FFDR	0	Focus drive output signal.
8			Focus drive output signal.
9	FRON	0	
10	FRDR	0	Focus drive output signal.
11	FFON	0	Focus drive output signal.
12	VC00	0	Osc. circuit output for analog EFM PLL.
13	VCOI		Osc. circuit input for analog EFM PLL. fLOCK=8.6436MHz.
14	TEST	- 1	Test terminal, normally GND.
15	Vss		Digital GND.
16	TES2		Test terminal, normally GND.
17	TES3	i	Test terminal, normally GND.
18	PDO	Ö	Charge pump output for analog EFM PLL.
			PLL charge pump output for variable pitch.
19	VPCO	0	
20	VCKI	1	Clock input from external VCO for variable pitch. fcenter=16.9344MHz.
21	AVDD		Analog power supply.
22	IGEN		Op-amp current source ref. R connecting terminal for digital servo.
23	AVss		Analog ground.
24	ADIO	0	A/D converter input monitor terminal.
25	RFC	1	Low-pas filter C connecting terminal for RFDC input.
26	RFDC		RF signal input. Input range: 2.15V~5.0V (at VDD=AVDD=5.0V).
27	TE	i i	Tracking error signal input. Input range: 2.5V±1.0V (at VDD=AVDD=5.0V).
28	SE	Hi	Sled error signal input. Input range: 2.5V±1.0V (at VDD=AVDD=5.0V).
29	FE	 	Focus error signal input. Input range: 2.5V±1.0V (at VDD=AVDD=5.0V).
			Center point voltage input terminal.
30	VC	1	
31	FILO	0	Filter output for master PLL.
32	FILI		Filter input for master PLL.
33	PCO	0	Charge pump output for master PLL.
34	CLTV		VCO control voltage input for master.
35	AVss		Analog ground.
36	RFAC	1	EFM signal input.
37	BIAS	1	Asymmetry circuit constant current input.
38	ASYI		Asymmetry comparator voltage input.
39	ASYO	0	EFM full swing output (L=Vss, H=VDD).
40	AVDD	 _	Analog power supply.
	VDD	 	Digital power supply.
41		+-	Asymmetry circuit ON/OFF (L=OFF, H=ON).
42	ASYE	+ !	
43	PSSL	+-	Mode shift input of audio data output. L to serial output, H to parallel output.
44	WDCK	0	48 bit slot D/A interface. word clock f=2Fs.
45	LRCK	0	48 bit slot D/A interface. LR clock f=Fs.
46	DA16	0	DA16 output when PSSL=1, 48bit slot serial data when PSSL=0.
47	DA15	0	DA15 output when PSSL=1, 48bit slot bit clock when PSSL=0.
48	DA14	0	DA14 output when PSSL=1, 64bit slot serial data when PSSL=0.
49	DA13	0	DA13 output when PSSL=1, 64bit slot bit clock when PSSL=0.
50	DA12	0	DA12 output when PSSL=1, 64bit slot LR clock when PSSL=0.
51	DA11	1 0	DA11 output when PSSL=1, GTOP output when PSSL=0.
52	DA10	0	DA10 output when PSSL=1, XUGF output when PSSL=0.
	DA10	1 6	DA09 output when PSSL=1, XPLCK output when PSSL=0.
53		_	DA08 output when PSSL=1, APEON output when PSSL=0.
54	DA08	10	DA07 output when DCCL -1, Or o output when DCCL -0.
55	DA07	0	DA07 output when PSSL=1, RFCK output when PSSL=0.
56	DA06	0	DA06 output when PSSL=1, C2PO output when PSSL=0.
57	DA05	0	DA05 output when PSSL=1, XRAOF output when PSSL=0.
58	DA04	0	DA04 output when PSSL=1, MNT3 output when PSSL=0.
59	DA03	0	DA03 output when PSSL=1, MNT2 output when PSSL=0.
60	DA02	0	DA02 output when PSSL=1, MNT1 output when PSSL=0.
61	DA01	0	DA01 output when PSSL=1, MNT0 output when PSSL=0.
62	XTAI	1 1	X'tal Osc. circuit input. 16.9344MHz or 33.8688MHz.
63	XTAO	0	X'tal Osc. circuit output.
	, ,,,,,	<u> </u>	1

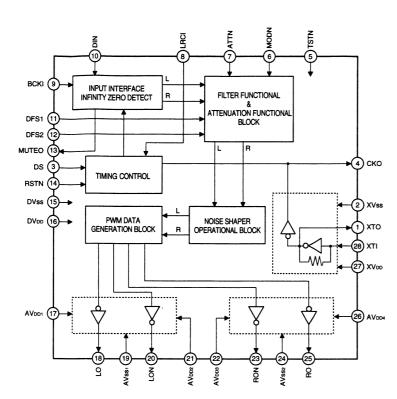
Pin No.	Symbol	1/0	Function
64	XTSL	1	X'tal select input terminal. L at X'tal is 16.9344MHz, H at X'tal is 33.8688MHz. (at normal play)
65	Vss		Digital ground.
66	FSTI		Ref. clock input terminal for digital servo block.
67	FSTO	0	2/3 cycle output of Pin 62, 63. Does not vary with variable pitch.
68	FSOF	0	1/4 cycle output of Pin 62, 63. Does not vary with variable pitch.
69	C16M	0	16.9344MHz output. Concurrently varies when variable pitched. (at normal play)
70	MD2		Digital-Out ON/OFF control terminal (L=OFF, H=ON).
71	DOUT	0	Digital-Out output terminal.
72	EMPH	0	Playback disc emphasis mode output (L=without emphasis, H=with emphasis).
73	WFCK	0	WFCK output.
74	SCOR	0	Sub code sync output terminal (H at either of sub-code sync S0 or S1 is detected).
75	SBSO	0	Sub P~W serial output.
76	EXCK		Clock input for SBSO read out.
77	SQSO	0	Sub Q 80 bit output. PCM peak data, level data 16-bit output.
78	SQCK		Clock input for SQSO read out.
79	MUTE	1	Mute shift terminal (mute at H).
80	SENS	0	SENS output. Emits to CPU.
81	XRST	1	System reset (reset at L).
82	DIRC	I	Using at 1 track jump. (input Vpp level when not use)
83	SCLK	T	Clock for SENS serial data read out.
84	DFSW		DFCT shift terminal (DFCT measure circuit OFF at H).
85	ATSK		Anti-shock terminal.
86	DATA		Serial data input from CPU.
87	XLAT	1	Latch input from CPU.
88	CLOK	1	Serial data transfer clock input from CPU.
89	COUT	0	Number of track count signal output.
90	V _{DD}		Digital power supply.
91	MIRR	0	Mirror signal output.
92	DFCT	0	Defect signal output.
93	FOK	0	Focus OK output.
94	FSW	0	Output filter shifting output of spindle motor.
95	MON	0	ON/OFF control output of spindle motor.
96	MDP	0	Servo control of spindle motor.
97	MDS	0	Servo control of spindle motor.
98	LOCK	0	By sampling GFS with 460Hz and when GFS at H, H output. L output at consecutively L 8 times.
99	SSTP	1	Terminal for disc innermost circle detection signal.
100	SFDR	0	Sled drive output.

Note: • 64bit slot is LSB first 2's complementary output. 48bit slot is MSB first 2's complementary output.

- GTOP is for monitoring Frame Sync protection. (H: Sync protection window open)
 XUGF is negative pulse Frame sync gained from EFM signal. Pre-sync-protection signal.
 XPLCK is reversal of EFM PLL clock. PLL is being made to synchronize falling edge with EFM signal's changing point.
- GFS signal becomes H when the timing of Frame Sync and interleaf protection are equal.
- RFCK depends on accuracy of X'tal. It's a signal of 136 μs cycle.
- C2PO is a signal indicates data error status.
- XRAOF is a signal generated when the 32k RAM exceeds jitter margin of ±28 frames.

SM5871A (IC200)



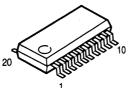


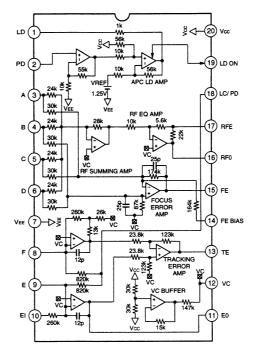
SM5871A Terminal Function

Pin No.	Symbol	i/o	Function								
1	XTO	0	Oscillator output.								
2	XVss		X'tal part GND (0V).								
3	DS	ip	ormal/double playback speed select (DS=L: Normal, DS=H: Double).								
4	СКО	0	Oscillator output clock (DS=L: 384fs, DS=H: 192fs).								
5	TSTN	ip	Test terminal, fixed to H level normally.								
6	MODN	ip	Mode control terminal. A SEL MODN T								
7	ATTN	ip	Soft mute control terminal. T H Soft mute off N L Soft mute on Soft mute on hold (fixed)								
8	LRCI	ip	Input data sample rate (fs) clock, H: Lch, L: Rch.								
9	BCKI	ip	Input data bit clock								
10	DIN	ip	Input data.								
11	DFS1	ip	De-emphasis control terminal 1. De-emphasis control terminal 1. De-emphasis control terminal 1. De-emphasis control terminal 1.								
12	DFS2	ip	De-emphasis control terminal 2. S L De-emphasis on, 44.1kHz De-emphasis off 2 H De-emphasis on, 48.0kHz De-emphasis on, 32.0kHz								
13	MUTE0	0	Infinity zero detect output.								
14	RSTN	ip	System reset, H: Normal, L: Reset.								
15	DVss	Ι –	Digital GND terminal (0V).								
16	DVDD	_	Digital Vod terminal (5V).								
17	AV _{DD1}	I —	Analog VDD terminal (5V).								
18	LO	0	Lch PWM output (+).								
19	AVss1		Analog GND terminal 1(0V).								
20	LON	0	Lch PWM output (-)								
21	AV _{DD2}		Analog Vod terminal 2(5V).								
22	AV _{DD3}	1 -	Analog VDD terminal 3(5V).								
23	RON	0	Rch PWM output (+)								
24	AVss ₂		Analog GND terminal 2 (0V)								
25	RO	0	Rch PWM output (+)								
26	AV _{DD4}		Analog VDD terminal 4(5V)								
27	XVDD		X'tal part VDD terminal (5V)								
28	XTI	1	Oscillator input terminal (DS=L: 394fs, DS=H: 192fs)								

i: input terminal, ip: input terminal w/pull-up resister, o: output terminal

CXA1821M (IC001)



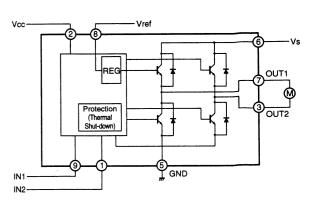


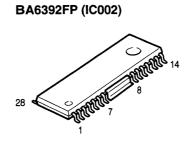
KIA7291S (IC105)

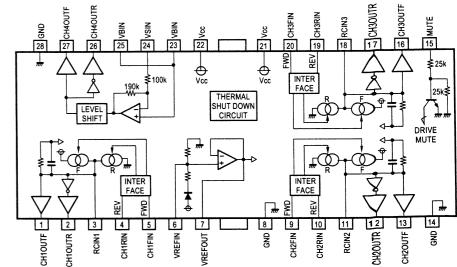


Terminal Function

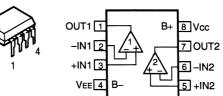
Pin No.	Symbol	Description
1	IN2	Input terminal
2	Vcc	Power for logic part
3	OUT2	Output terminal
4	NC	No connection
5	GND	GND
6	Vs	Power for output part
7	OUT1	Output terminal
8	Vref	Ref. voltage terminal
9	IN1	Input terminal



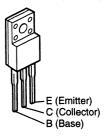


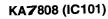


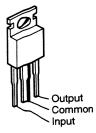
NJM4558DD (IC201, 202)



KTD2058 (IC152)

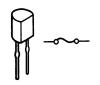




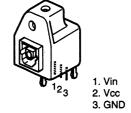


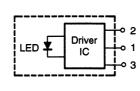
● IC Protector

ICP-N15 (SF101,102)



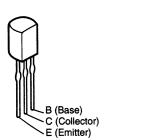
Optical Output **GP1F32T (OPTICAL)**



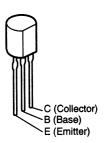


Transistors

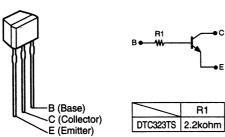
KTA1266 KTC3198



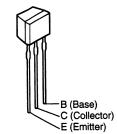
MPSA56



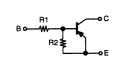
DTC323TS



DTA114YS DTC114YS

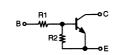


PNP Series



	R1	R2
DTA114YS	10kohm	4.7kohm

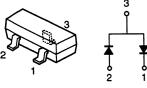
NPN Series



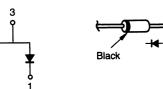
	R1	R2
DTC114YS	10kohm	4.7kohm

Diodes

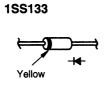
KDS226

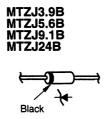






1N4004A

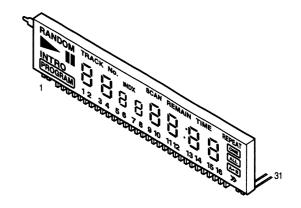




1: Cathode 1 2: Anode 2

3: Anode1/Cathode 2

●FL DISPLAY 10-BT-197GK



Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F1	F1	NP	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NC	NC	NC	NC	NC	а	b	С	d	е	f

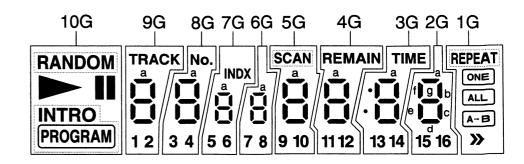
Pin No.	25	26	27	28	29	30	31
Connection	g	h	i	j	NP	F2	F2

NOTE 1) F1, F2 · · · · Filament

2) NP · · · · · No Pin

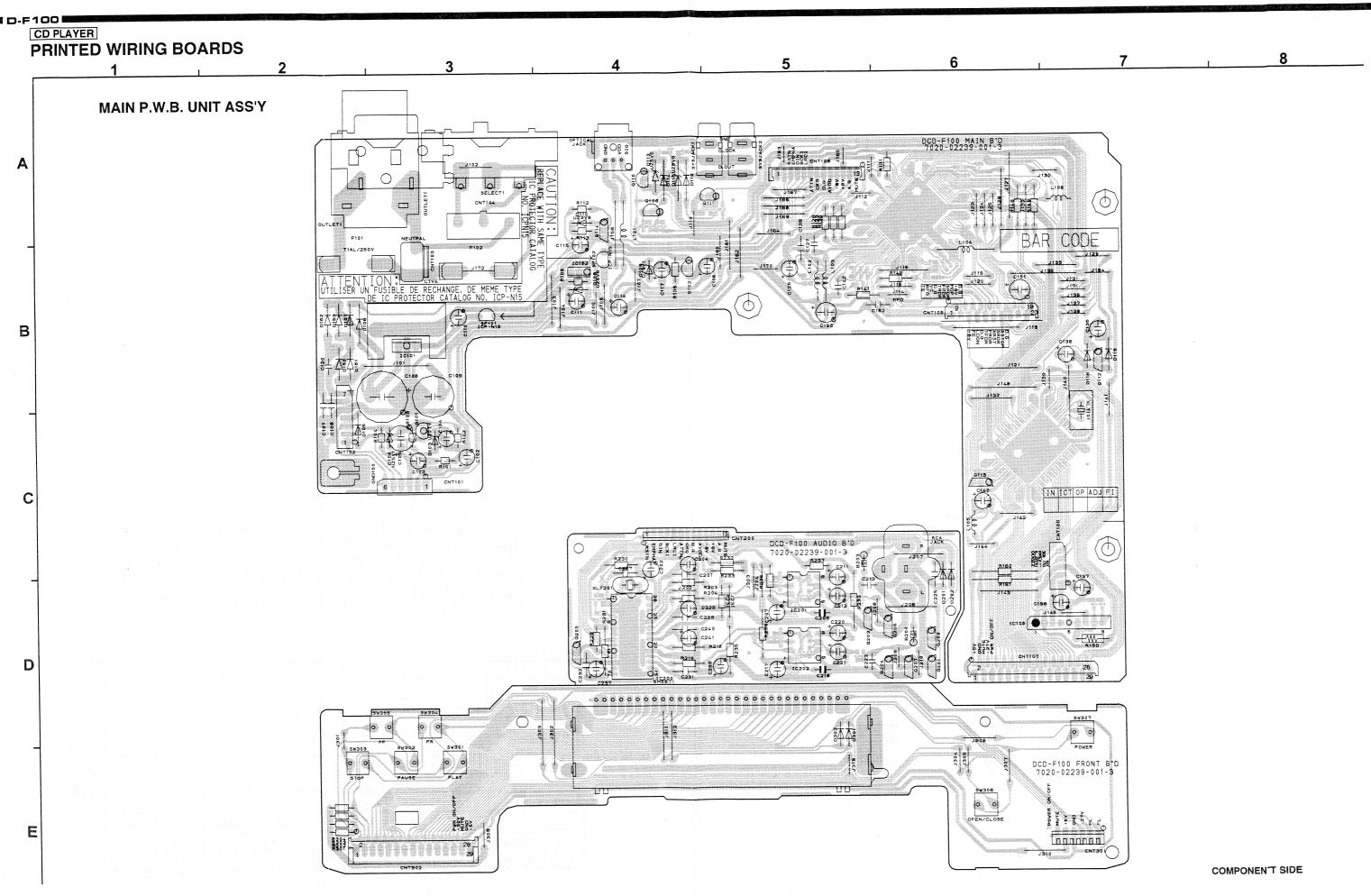
3) NC · · · · · · No Connection 4) 1G~10G · · · · Grid

Grid Partition



Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	RANDOM	а	а	а	а	а	а	а	а	_
P2	>	b	b	b	b	b	b	b	b	_
P3	II	С	С	С	С	С	С	С	С	_
P4	_	d	d	d	d	d	d	d	d	REPEAT
P5	_	е	е	е	е	е	е	е	е	ONE
P6	_	f	f	f	f	f	f	f	f	ALL
P7	_	g	g	g	g	g	g	g	g	A→
P8	_	TRACK	NO.	INDX	_	SCAN	REMAIN	TIME	_	В
P9	PROGRAM	1	3	5	7	9	11	13	15	_
P10	INTRO	2	4	6	8	10	12	14	16	>>



Α

В

CD PLAYER

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FOIL SIDE

47

48

CD PLAYER

RF & DRIVE P.W.B. UNIT ASS'Y * § 7020-02101-001-00 0 **7 7** * ST CO IC002 J007 J006 C007 CN003 9001 J011 J012 +5V 0 0 J014 J015 IC001 C001 J019 * ___ J028 - v.c CD RESORIVE PCB COMPONENT SIDE COM POOR 11 R002 0 0 C026 D R021 C027 RF & DRIVE PCB **FOIL SIDE**

NOTE FOR PARTS LIST

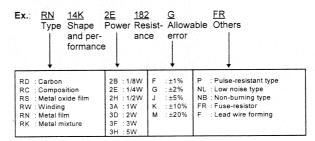
- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

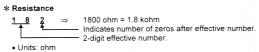
WARNING:

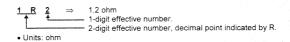
Parts marked with this symbol \triangle have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

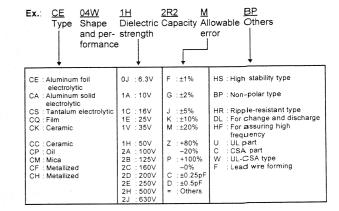
Resistors



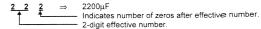




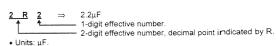
Capacitors



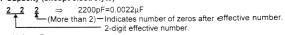
* Capacity (electrolyte only)



• Units: μF.



* Capacity (except electrolyte)



Units: μF.

• Units: pF.

When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

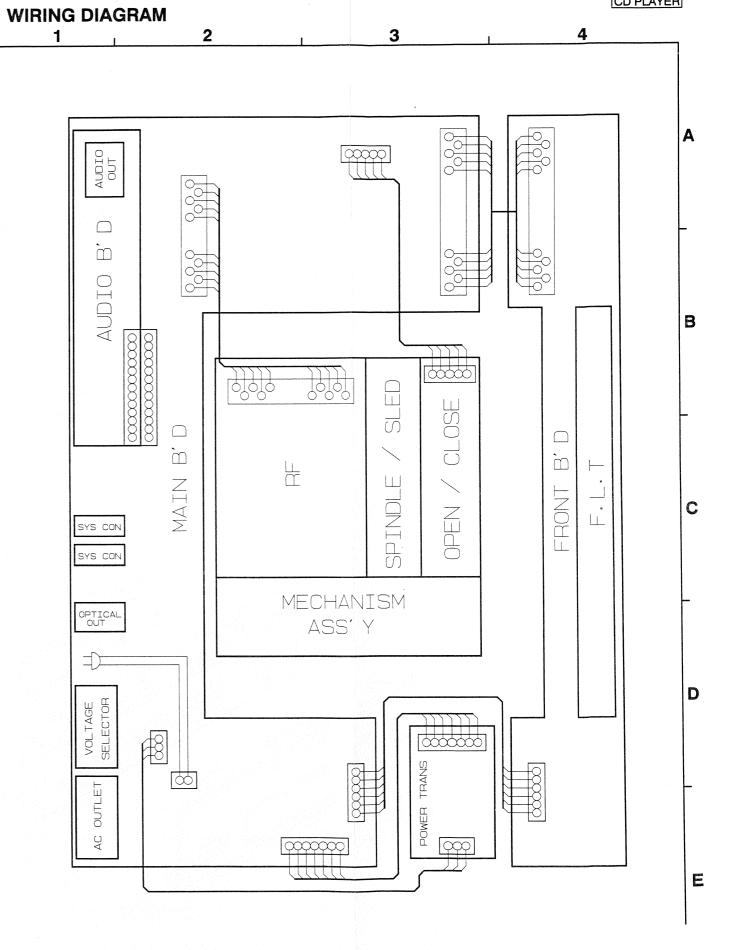
PARTS LIST OF P.W.B. UNIT CD RF & DRIVE P.W.B. UNIT ASS'Y

MAIN P.W.B. UNIT ASS'Y

		7.W.B. UNIT ASS		_		W.B. UNI		Τ
Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks
	IDUCTORS 6	1	1			DUCTORS O		T
IC001	S87 5207 245	IC CXA1821M	J030182100010	ı	IC101	960 0128 503	IC KA7808	J126780800060
IC002	263 0909 906	IC BA6392FP	J127639200010		IC103	S87 5236 978	IC CXD2545Q	J031254500010
					IC105	960 0129 104	IC TA7291S	J127729100000
Q001	960 0005 105	Transistor KTA1266Y	J5001266Y0050		IC152	960 0004 902	IC KTD2058Y	J5032058Y0140
D001	276 0401 905	Diode 1SS133	K000013300520	ı	IC200	960 0129 609	IC SM5871AP	J042587100020
					IC201,202	265 0030 004	IC NJM4558DD	J121455800020
RESISTO	RS GROUP				Q101,102	960 0128 309	Transistor MPSA56Y	J5005600Y0050
R001		Carbon chip 47 kohm 1/10W	C200047360200		Q101,102 Q108	960 0005 105	Transistor KTA1266Y	J5001266Y0050
R002		Carbon chip 22 kohm 1/10W	C200022360200	- 1	Q100 Q110	960 0128 406		J5023198B0050
R003,004		Carbon chip 150 kohm 1/10W	C200015460200	ı	1		Transistor KTC 3198 BL	1
R005		Carbon chip 10 kohm 1/10W	C200010360200	1	Q111	960 0005 105	Transistor KTA1266Y	J5001266Y0050
R006		Carbon chip 22 kohm 1/10W	C200022360200		Q112	963 0022 006	Transistor DTC114YS	J6020114Y0050
R007		Carbon chip 22 ohm 1/10W	C200022060200		Q113	269 0072 909	Transistor DTC323TS	J602323TS0050
R020		Carbon chip 4.7 ohm 1/10W	C2004R7060200		Q114	963 0022 006	Transistor DTC114YS	J6020114Y0050
R021		Carbon chip 150 kohm 1/10W	C200015460200	j	Q201,202	269 0078 903	Transistor DTA114YS	J6000114Y0010
R022		Carbon chip 56 kohm 1/10W	C200056360200		Q201,202 Q203~207	269 0072 909	Transistor DTC323TS	J602323T\$0050
R023		Carbon chip 150 kohm 1/10W	C200015460200	i	Q203~207	209 00/2 909	Transistor DTC32315	3002323130030
					D101	960 0014 206	Diode KDS226S	K005022600010
CAPACIT	ORS GROUP				D103	960 0128 202	Zener diode MTZJ24B	K06024R044520
C001	254 4252 037	Electrolytic 100 μF/10V	D040101082050		D104	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C002		Ceramic chip 0.022 µF/50V	D011223777200		D105	960 0117 608	Diode 1N4004A	K040400400520
C003		Ceramic chip 15 pF/50V	D010150167200	- 1	D106,107	276 0401 905	Diode 1SS133	K000013300520
C004		Ceramic chip 0.022 µF/50V	D011223777200		D108	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C006		Ceramic chip 0.001 µF/50V	D011102777200	- 1	D109	960 0128 105	Zener diode MTZJ9.1B	K06009R144520
C007	254 4252 037	Electrolytic 100 µF/10V	D040101082050	l	D110	9L2 3480 72M	Zener diode MTZJ3.9B	K06003R944520
C008		Ceramic chip 0.022 μF/50V	D011223777200		D113	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C009,010	254 4252 037	Electrolytic 100 µF/10V	D040101082050	ı	D114	276 0401 905	Diode 1SS133	K000013300520
C020	254 4260 029	Electrolytic 0.33 μF/50V	D040R33087110		D115	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
C021		Ceramic chip 27 pF/50V	D010270167200	ı	D116	276 0401 905	Diode 1SS133	K000013300520
C022		Ceramic chip 0.1 µF/50V	D011104597200	ı	D118,119	276 0401 905	Diode 1SS133	K000013300520
C023		Ceramic chip 27 pF/50V	D010270167200	ı	D150~153	960 0117 608	Diode 1N4004A	K040400400520
C024		Ceramic chip 0.0015 µF/50V	D011152777200					
C025		Ceramic chip 0.1 µF/50V	D011104597200		D201,202	276 0401 905	Diode 1SS133	K000013300520
C026		Ceramic chip 0.0068 µF/50V	D011682777200	i				
C027		Ceramic chip 0.022 µF/50V	D011223777200	1	D301,302	276 0401 905	Diode 1SS133	K000013300520
C028,029	254 4252 037	Electrolytic 100 µF/10V	D040101082050					
	į			ı	RESISTO	RS GROUP	1	1
OTHER P	ARTS GROU	P		2'ty	R101		Carbon film 6.8 kohm 1/5W	C00006826P520
CN001	960 0127 407	20P FPC connector base	L131520442010	1	R102		Carbon film 47 kohm 1/5W	C00004736P520
CN002	960 0127 300	16P FPC connector base	L130528071610	il	R103		Carbon film 3.3 kohm 1/5W	C00003326P520
CN003	960 0127 203	6P connector base	L101530150610	ίl	R104		Carbon film 12 kohm 1/5W	C00001236P520
500				۱.	R105,106		Carbon film 470 ohm 1/5W	C00004716P520
J031,032		Carbon chip 0 ohm 1/10W	C200000060200	2	R112		Carbon film 5.6 kohm 1/5W	C00005626P520
			320000000000000000000000000000000000000	٦	R113		Carbon film 47 kohm 1/5W	C00004736P520
L001	960 0010 307	Inductor 10 µH	D330100700520	۱, ا	R114		Carbon chip 10 kohm 1/10W	C200010360200
-001	300 0010 307	μουσιοί το μετ	D330100700320	'	R116		Carbon chip 22 kohm 1/10W	C200010360200
TP1		2P tost pin	1 421000050000	, 1	R117		· · · · · · · · · · · · · · · · · · ·	C200022360200
101		2P test pin	L421000050000	1	R118~120		Carbon chip 10 kohm 1/10W	1
			1	j	1		Carbon chip 22 kohm 1/10W	C200022360200
	L	<u> </u>	<u> </u>		R121		Carbon chip 10 kohm 1/10W	C200010360200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R123,124		Carbon chip 22 kohm 1/10W	C200022360200	R306~330		Carbon film 100 kohm 1/5W	C00001046P520
R125		Carbon chip 47 kohm 1/10W	C200047360200	j			
R126		Carbon chip 220 ohm 1/10W	C200022160200				L
R127		Carbon chip 100 ohm 1/10W	C200010160200		ORS GROUP		12
R128~130		Carbon film 1 kohm 1/5W	C00001026P520	C100		Ceramic chip 0.1 μF/50V	D011104177210
R131		Carbon film 10 kohm 1/5W	C00001036P520	C102		Electrolytic 100 μF/10V	D040101082060
R132		Carbon chip 180 ohm 1/10W	C200018160200	C103,104		Electrolytic 10 μF/50V	D040100087050
R133		Carbon chip 10 kohm 1/10W	C200010360200	C105		Electrolytic 22 µF/50V	D040220087060
R134		Carbon chip 100 kohm 1/10W	C200010460200	C106,107		Ceramic 0.1 μF/50V	D005104597530
R135		Carbon chip 1 Mohm 1/10W	C200010560200	C108		Electrolytic 3300 μF/25V	D040332084020
R137		Carbon chip 10 kohm 1/10W	C200010360200	C109		Electrolytic 1000 μF/25V	D040102084030
R138,139		Carbon chip 3.3 kohm 1/10W	C200033260200	C110,111		Electrolytic 10 μF/50V	D040100087050
R140		Carbon film 15 kohm 1/5W	C00001536P520	C114		Electrolytic 100 μF/10V	D040101082060
R141		Carbon film 100 ohm 1/5W	C00001016P520	C115		Electrolytic 100 μF/25V	D040101084060
R142		Carbon chip 100 kohm 1/10W	C200010460200	C116		Electrolytic 100 μF/10V	D040101082060
R143		Carbon chip 15 kohm 1/10W	C200015360200	C117		Electrolytic 10 μF/50V	D040100087050
R144		Carbon chip 33 kohm 1/10W	C200033360200	C119		Ceramic chip 0.001 µF/50V	D011102177210
R145		Carbon chip 10 kohm 1/10W	C200010360200	C120		Film 0.068 μF/63V	D020683078060
R147		Carbon chip 1 kohm 1/10W	C200010260200	C121,122		Ceramic chip 0.001 μF/50V	D011102177210
R148,149		Carbon film 10 kohm 1/5W	C00001036P520	C123		Ceramic chip 0.1 μF/50V	D011104177210
R150		Carbon chip 47 kohm 1/10W	C200047360200	C125		Electrolytic 0.1 μF/50V	D040R10087070
R153		Carbon chip 1 ohm 1/10W	C200001060200	C126		Ceramic 0.01 μF/16V	D005103773530
R154		Carbon chip 2.7 kohm 1/10W	C200027260200	C127		Film 0.68 μF/63V	D020684078060
R155		Carbon chip 4.3 kohm 1/10W	C200043260200	C129		Ceramic chip 0.0033 µF/50V	D011332177210
R156		Carbon chip 47 kohm 1/10W	C200047360200	C130		Ceramic chip 0.047 μF	D011473177210
R158		Carbon chip 47 kohm 1/10W	C200047360200	C131		Ceramic chip 0.1 μF/50V	D011104177210
R159		Carbon chip 100 kohm 1/10W	C200010460200	C132,133		Ceramic chip 470 pF/50V	D010471167200
R160,161		Carbon film 47 kohm 1/5W	C00004736P520	C134		Ceramic chip 0.1 μF/50V	D011104177210
, ,				C135		Electrolytic 3.3 μF/50V	D0403R3087100
R201		Carbon chip 22 ohm 1/10W	C200022060200	C136		Electrolytic 1 μF/50V	D040010087050
R202		Carbon chip 180 ohm 1/10W	C200018160200	C137,138		Electrolytic 100 μF/10V	D040101082060
R203,204		Carbon film 10 kohm 1/5W	C00001036P520	C137,138		Electrolytic 100 μF/10V	D040101082060
R205,206		Carbon chip 6.8 kohm 1/10W	C200068260200	C139		Ceramic chip 0.1 μF/50V	D011104177210
R207		Carbon chip 22 kohm 1/10W	C200022360200	C140		Electrolytic 100 fμF/10V	D040101082060
R208		Carbon chip 24 kohm 1/10W	C200024360200	C140		Electrolytic 100 μF/10V	D040101082060
R209~211		Carbon chip 6.8 kohm 1/10W	C200068260200	C141		Ceramic chip 0.1 μF/50V	D011104177210
R212		Carbon chip 100 kohm 1/10W	C200010460200	C142		Film 0.0015 fμF/100V	D02015206C060
R213		Carbon chip 680 ohm 1/10W	C200068160200	C143		Ceramic chip 100 pF/50V	D010101167200
R214		Carbon chip 100 ohm 1/10W	C200010160200	C144		Ceramic chip 0.1 μF/50V	D011104177210
R215,216		Carbon film 10 kohm 1/5W	C00001036P520	C146		Ceramic chip 0.1 µF/50V	D011104177210
R217,218		Carbon chip 6.8 kohm 1/10W	C200068260200	C147		Ceramic chip 100 pF/50V	D010101167200
R219		Carbon chip 24 kohm 1/10W	C200024360200	C148		Ceramic 0.1 μF/50V	D005104597530
R220		Carbon chip 22 kohm 1/10W	C200022360200	C150,151		Electrolytic 220 µF/10V	D040221082050
R221~223		Carbon chip 6.8 kohm 1/10W	C200068260200	C152		Ceramic 100 pF/50V	D005101177520
R224		Carbon chip 680 ohm 1/10W	C200068160200	C153,154		Ceramic chip 100 pF/50V	D010101167200
R225		Carbon chip 100 kohm 1/10W	C200010460200				B005470507500
R226		Carbon chip 100 ohm 1/10W	C200010160200	C201		Ceramic 0.047 μF/50V	D005473597520
R227		Carbon chip 1 Mohm 1/10W	C200010560200	C202		Electrolytic 47 µF/16V	D040470083100
R228		Carbon film 47 kohm 1/5W	C00004736P520	C204		Electrolytic 47 µF/16V	D040470083100
R230~239		Carbon film 47 ohm 1/5W	C00004706P520	C205		Ceramic chip 220 pF/50V	D010221167200
				C206		Ceramic chip 100 pF/50V	D010101167200
R301~304		Carbon film 47 kohm 1/5W	C00004736P520	C207		Electrolytic 22 µF/16V	D040220083070
L				C208		Ceramic chip 100 pF/50V	D010101167200

C210 Ceramic chip 220 pF/50V D010221167200 SF101,102 268 0073 002 LC ICP-N15 J120001500030 C211 Electrolytic 10 μF/50V D040100087050 SF101,102 268 0073 002 LC ICP-N15 J120001500030 C212 Electrolytic 10 μF/50V D040100087050 SW301-307 960 0069 206 Tact switch G180215050010 C214 Ceramic chip 220 pF/50V D01021167200 SYSJACK1,2 960 0004 407 Mini jack G401031102010 C217 Electrolytic 22 μF/16V D040220083070 XLT101 399 0107 900 Ceramic 4.19MHz E830419000060 C219 Ceramic chip 220 pF/50V D010221167200 XLT201 960 0129 405 Crystal 16.9344 MHz E800169344460 C220 Electrolytic 22 μF/16V D040220083070 XLT201 960 0127 708 Heat sink 2120044298010 C221 Electrolytic 22 μF/16V D040220083070 960 0127 708 Heat sink 2120044298010 C222 Film 0.0022 μF/100V D02022266C060 960 0127 805 Earth plate 4470200016010 C223,224	Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks	Q't
C212	C209		Film 0.0022 μF/100V	D02022206C060		RCA1	960 0129 502	2P pin jack	G601201150030	1
C212 Electroylic 10 µF80V D04010087050 SW301-307 960 0069 208 Tact switch G180215050101 C2124 Carmain Choir 200 PF80V D01021167200 SW301-307 960 0069 208 Tact switch G180215050101 C2124 Carmain Choir 100 µF80V D01021617200 SW301-307 960 0069 208 Tact switch G180215050101 C2126 Carmain Choir 200 µF80V D01021617200 SW301-307 SW301-307 C218 Electroylic 22 µF160V D020220860080 XLT101 399 0107 900 Ceramic 4.19MHz E3004900080 C229 Electroylic 22 µF160V D020220860080 XLT201 399 0107 900 Ceramic 4.19MHz E3004900080 C220 Electroylic 10 µF50V D04020088070 XLT201 399 0107 900 Ceramic 4.19MHz E3004900080 C222 Electroylic 10 µF50V D04020088070 XLT201 399 0107 900 Ceramic 4.19MHz E3004900080 C222 Electroylic 10 µF50V D04020088070 XLT201 S90 0127 805 Earth plate 4 47020005010 S90 0127 805 Earth plate 4 4702005010 S90 0005 804 Fixe holder G8450005010, S90 0005 804 Fix	C210		Ceramic chip 220 pF/50V	D010221167200						
C214	C211		Electrolytic 22 µF/16V	D040220083070		SF101,102	268 0073 002	IC ICP-N15	J120001500030	2
C211216	C212		Electrolytic 10 μF/50V	D040100087050						
C215_216	C213		Film 0.0022 μF/100V	D02022206C060		SW301-307	960 0069 206	Tact switch	G180215050010	7
C217	C214		Ceramic chip 220 pF/50V	D010221167200						
C219	C215,216			D010101167200		SYSJACK1,2	960 0004 407	Mini jack	G401031102010	2
C219	C217		Electrolytic 22 µF/16V	D040220083070						
Electrolytic 22 µF116V D040220083070 Selectrolytic 10 µF150V D04010087950 Second Se	C218		Film 0.0022 µF/100V	D02022206C060		XLT101	399 0107 900	Ceramic 4.19MHz	E830419000060	1
C221	C219		Ceramic chip 220 pF/50V	D010221167200		XLT201	960 0129 405	Crystal 16.9344 MHz	E800169344460	1
C221				D040220083070						
C222				D040100087050			960 0127 708	Heat sink	2120044298010	1
C223,224 Ceramic Chip 27 pF/50V D010270167200 D000514997530 C226 Ceramic Chip 17 pF/50V D000514997530 G226 Ceramic Chip 27 pF/50V D010270167200 D0005473597520 G227 Ceramic 0.047 μF/50V D0005473597520 G229 Ceramic 0.047 μF/50V D0005473597520 G229 Ceramic 0.047 μF/50V D0005473597520 G229 Ceramic 0.047 μF/50V D0005473597520 G230237 Celectrolytic 47 μF/16V D0040470083100 G230237 Celectrolytic 47 μF/16V D0040470083100 G240 Ceramic 0.047 μF/50V D005473597520 G240 Ceramic 0.047 μF/50V				L**			960 0127 805	Earth plate	4470200016010	1
C225 Ceramic 0.1 μF/50V D005104597530 D00627067200 C227 Ceramic 0.10 μF/50V D00627067200 D00627057200 D006270587500 D0062									G645000050010,	2
C226	·		ARTHUR TO THE			1000 (1000) 1870 (1000)			1 .	
C227		1	Proceedings of the second			,	960 0005 804	Fuse holder	G645000050010.	2
C228									1	
C229								A STATE OF THE STA	1	100
C231,232 C240 Ceramic 0.047 μF/50V Electrolytic 47 μF/16V D005473597520 D040470083100 D005475520 D040470083100 D005475520 D040470083100				Landa Maria Aliana			960 0143 300	Fl supporter		1
C236_237								1		
C240 C241 Ceramic 0.047 μF/50V Electrolytic 47 μF/16V D0040470083100 OTHER PARTS GROUP Δ ISELECTI 963 0027 700 Slide switch G060040550010 Asa Model only CNT101 960 0128 804 CNT102 960 0118 704 CNT102 960 0118 908 CNT103 960 0128 907 CNT104 960 0128 907 13P connector base L108258700600 1 CNT105 960 0128 707 CNT106 960 0128 707 CNT107 Sp60 0128 707 CNT108 960 0128 707 CNT109 960 0128 707 CNT101 960 0128 808 L10835361310 L101353361310 1 13P connector base L101353361310 1 13P connector base L101353271310 1 13P connector base L101352371310 1 CNT200 960 0129 706 CNT201 960 0129 706 CNT202 960 0129 808 Z9P FPC connector base L10135271310 1 CNT302 960 0129 808 Z9P FPC connector base L131837002910 1 A F101 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 0128 008 GND10 errninal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1		· ·							1 1 1 1 1 1 1	1
C241 Electrolytic 47 μF/16V D040470083100	'	-	North and the second of the se	ar estra la chesta			000 0010 001	001011 0/10 021 0(2) 2	202000000	1
OTHER PARTS GROUP Q¹ty Δ ISELECTI 963 0027 700 Slide switch G060040550010 1 CNT101 960 0128 804 6P connector base L102526700600 1 CNT102 960 0118 704 7P connector base L102526700700 1 CNT104 960 0128 901 13P connector base L104353280300 1 CNT105 960 0128 707 5P connector base L104353280300 1 CNT106 960 0128 707 5P connector base L104353280300 1 CNT107 960 0128 707 5P connector base L10185306131 1 CNT108 960 0129 207 29P FPC connector base L101853361310 1 CNT200 960 0129 706 13P connector base L101853361310 1 CNT301 960 0129 900 7P flat cable L382106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 ΔF 101 45 Fuse 250V 1A G650102251180 1 ΔF 102 960 0142 709 Fuse 250V 1A									-	
A ISELECTI 963 0027 700 Slide switch G060040550010 1 Asia Model only 1 CNT101 960 0128 804 6P connector base L102526700700 1 CNT102 960 0118 704 7P connector base L1002526700700 1 CNT103 960 0118 904 2P connector base L104383280300 1 CNT104 960 0128 901 13P connector base L104383280300 1 CNT105 960 0129 007 20P FPC connector base L104383280300 1 CNT106 960 0128 707 CNT107 960 0129 201 CNT108 960 0129 201 CNT108 960 0129 201 CNT108 960 0129 706 13P connector base L1013837002900 1 CNT108 960 0129 706 13P connector base L101383702900 1 CNT108 960 0129 706 13P connector base L10138337110 1 CNT301 960 0129 900 1 Prilat cable L352106183100 1 CNT301 960 0129 803 29P FPC connector base L10138237110 1 TP flat cable L352106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 TP flat cable L352106183100 1 CNT302 960 0129 706 019 Fuse 250V,1A G650102251160 1 Asia Model only GND100 960 0128 008 Inductor 100 µH D330101001020 6 COPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	0241		Liectrolytic 47 µ17104	D040470000100						
A ISELECT1 963 0027 700 Slide switch G060040550010 1 Asia Model only 1 CNT101 960 0128 804 6 P connector base L102526700700 1 7 P connector base L102526700700 1 960 0118 904 2 P connector base L108039602010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									-	1.11
CNT101 960 0128 804 6P connector base L102526700600 1 1 1 1 1 1 1 1 1	OTHER P	ARTS GROU	P		Q'ty					
CNT101 960 0128 804 6P connector base L102526700600 1 1 CNT102 960 0118 704 7P connector base L102526700700 1 1 CNT103 960 0118 908 2P connector base L108039602010 1 13P connector base L10435380300 1 CNT105 960 0128 901 29P FPC connector base L131837002000 1 CNT106 960 0128 707 5P connector base L102526700500 1 CNT107 960 0129 201 29P FPC connector base L101353361310 1 CNT108 960 0128 600 113P connector base L101353361310 1 13P connector base L101353361310 1 13P connector base L101353361310 1 1 CNT200 960 0129 706 13P connector base L101353371310 1 1 TP flat cable L352106183100 1 CNT301 960 0129 900 7P flat cable L352106183100 1 29P FPC connector base L131837002910 1 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 1 CNT302 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only Africa GND100 960 9006 600 GND terminal 379040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 COPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	Å 1SELECT1	963 0027 700	Slide switch	G060040550010	1					
CNT102 960 0118 704 7P connector base L102526700700 1 1 2P connector base L108039602010 1 1 3P connector base L108039602010 1 1 3P connector base L104353280300 1 1 3P connector base L102526700500 1 2P FPC connector base L102526700500 1 2P FPC connector base L10353361310 1 3P connector base L101353361310 1 3P connector base L1013533731310 1 3P connector base L1013533731310 1 3P connector base L101352371310 1 2P FPC connector base L131837002910 1 3P connector base L101352371310 1 2P FPC connector base L131837002910 1 3P connector base L1011353331310 1 3P connector base L1011353331310 1 3P connector base L131837002910 1 3P connector base L1318370310 1 3P connector base L131837002910 1 3P connector base L131				Asia Model only						
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CNT103	CNT101	960 0128 804	6P connector base	L102526700600	1		-14			
CNT104 960 0128 901 13P connector base L104353280300 1 CNT105 960 0129 007 20P FPC connector base L102526700500 1 CNT106 960 0128 707 5P connector base L131837002900 1 CNT107 960 0129 201 29P FPC connector base L131837002900 1 CNT108 960 0128 600 13P connector base L101353361310 1 CNT200 960 0129 706 13P connector base L101352371310 1 CNT301 960 0129 900 7P flat cable L352106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 ΔF101 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	CNT102	960 0118 704	7P connector base	L102526700700	1					
CNT105 960 0129 007 20P FPC connector base L131837002000 1 CNT106 960 0128 707 5P connector base L102526700500 1 CNT107 960 0129 201 29P FPC connector base L131837002900 1 CNT108 960 0128 600 13P connector base L101353361310 1 CNT200 960 0129 706 13P connector base L101352371310 1 CNT301 960 0129 900 7P flat cable L352106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 Δ. F101 960 0142 709 Fuse 250V 1A G650102251160 1 Δ. F102 960 0142 709 Fuse 250V 1A G650102251160 1 Δ. F102 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	CNT103	960 0118 908	2P connector base	L108039602010	1					
CNT106 960 0128 707 5P connector base L102526700500 1 CNT107 960 0129 201 29P FPC connector base L131837002900 1 CNT108 960 0128 600 13P connector base L101353361310 1 CNT200 960 0129 706 13P connector base L101352371310 1 CNT301 960 0129 900 7P flat cable L352106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 Δ. F101 960 0142 709 Fuse 250V 1A G650102251160 1 Δ. F102 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	CNT104	960 0128 901	13P connector base	L104353280300	1					1:2
CNT107 960 0129 201 29P FPC connector base L131837002900 1 CNT108 960 0128 600 13P connector base L101353361310 1 CNT200 960 0129 706 13P connector base L101352371310 1 CNT301 960 0129 900 7P flat cable L352106183100 1 CNT302 960 0129 803 29P FPC connector base L131837002910 1 L31837002910 1 CNT302 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 CNT106 960 0128 008 Inductor 100 μH D330101001020 6 CNTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	CNT105	960 0129 007	20P FPC connector base	L131837002000	1					
CNT108 960 0128 600 13P connector base L101353361310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352371310 1 1 101352106183100 1 1 101352106183100 1 1 1 101352371310 1 1 1 101352371310 1 1 1 101352371310 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CNT106	960 0128 707	5P connector base	L102526700500	1					
CNT108 960 0128 600 13P connector base L101353361310 1	CNT107	960 0129 201	29P FPC connector base	L131837002900	1					1
CNT301 960 0129 900 7P flat cable 29P FPC connector base L352106183100 1 L131837002910 1 1 Δ F101 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1		960 0128 600	13P connector base	L101353361310	1					7.
CNT301 960 0129 900 7P flat cable L352106183100 1 L131837002910 1 1 Δ F101 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only		960 0129 706	13P connector base	L101352371310	1					
CNT302 960 0129 803 29P FPC connector base L131837002910 1 Δ F101 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1		960 0129 900	7P flat cable	L352106183100	1					
A F102 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1		960 0129 803	29P FPC connector base	L131837002910	1				-	
Æ F102 960 0142 709 Fuse 250V 1A G650102251160 1 Asia Model only 1 GND100 960 9006 600 GND terminal 3790040876010 1 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1										
# F102 960 0142 709 Fuse 250V 1A G680102251160 1 Asia Model only	Æ F101	960 0142 709	Fuse 250V 1A	G650102251160	1				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Asia Model only GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1		1		G650102251160	1					
GND100 960 9006 600 GND terminal 3790040876010 1 L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1										
L101-106 960 0128 008 Inductor 100 μH D330101001020 6 OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1				•						
OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	GND100	960 9006 600	GND terminal	3790040876010	1					
OPTICAL 269 0098 006 Optical connector (GP1F32T) E100132000010 1	L101-106	960 0128 008	Inductor 100 µH	D330101001020	6					
				F1001000000						-
∆ OLITLET1 960 0142 301 AC outlet G435040110000 1	OPTICAL	269 0098 006	Optical connector (GP1F32T)	E100132000010	1					
	Λ ΩIΠFT1	960 0142 301	AC outlet	G435040110000	,					

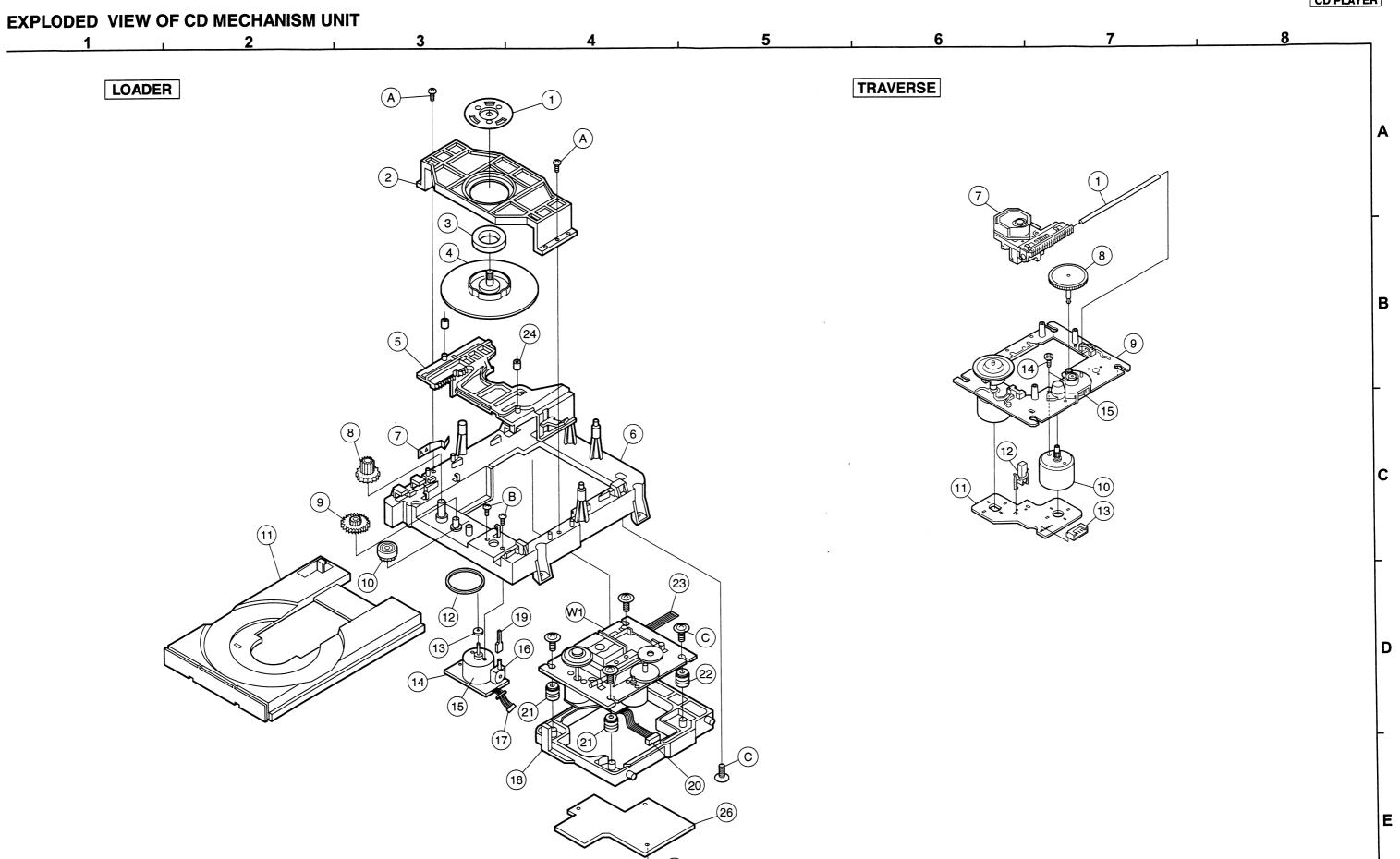


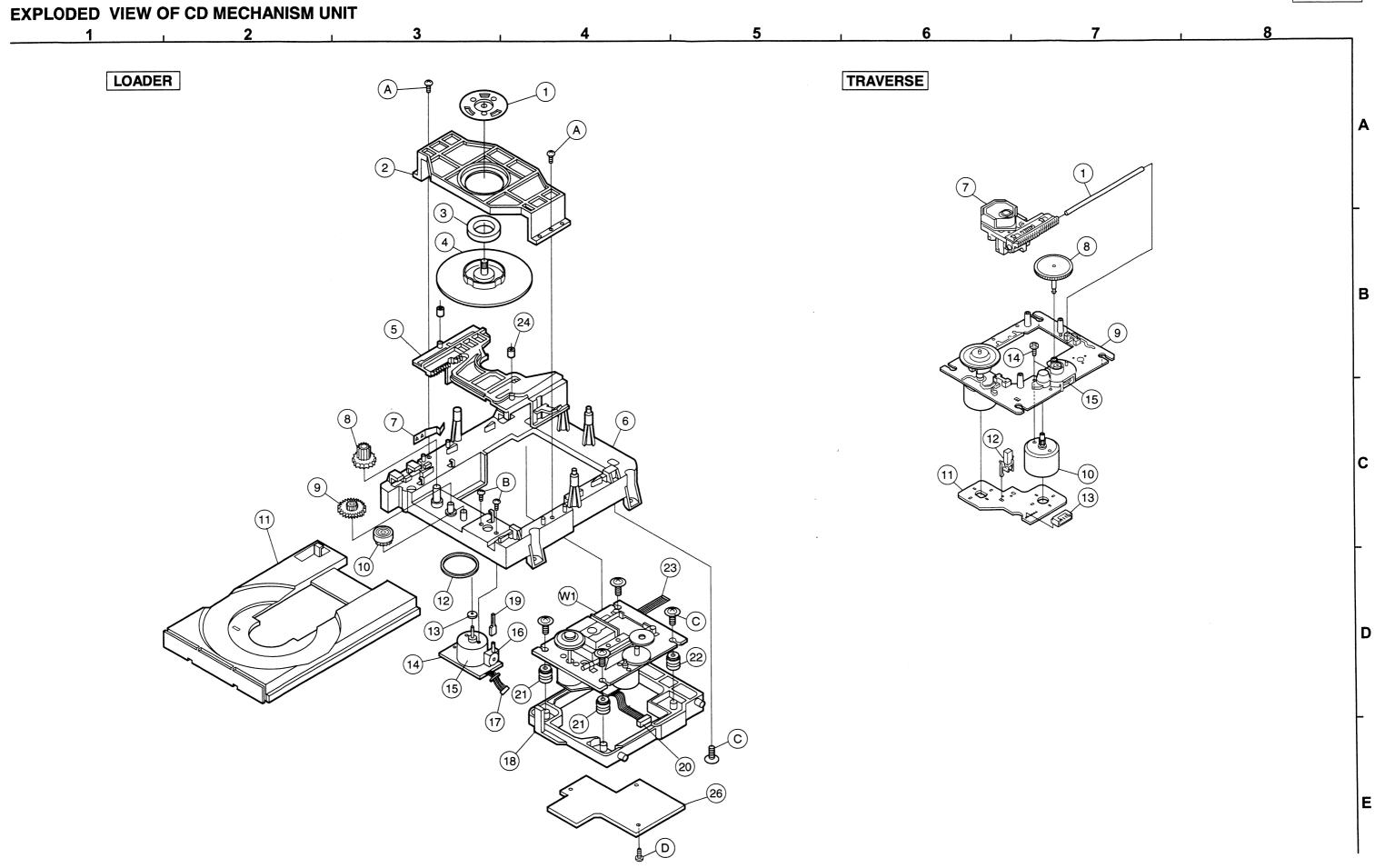
PARTS LIST OF EXPLODED VIEW

	13	LISTO			
Ref. N	ο.	Part No.	Part Name	Remarks	Q'ty
	-	960 0138 027	Main P.W.B. unit ass'y	7025HD9805010	1
				Europe & U.K. Models	
960 0138 014		960 0138 014	Main P.W.B. unit ass'y	7025HD9805040	1
				Asia Model	
	- 6		Front P.W.B. unit		
	11		Main P.W.B. unit		
L	-12		Audio P.W.B. unit		
1	8-1	960 0127 009	CD RF & drive P.W.B. unit ass'y	7025HD9805011	1
	1	960 0115 707	DENON badge	5630210008000	1
	2	960 0126 000	Front panel	3067210038010	1
	3	960 0126 505	Display window	5077210043020	1
	4	960 0126 107	Front frame	3217210011010	1
	7	960 0003 505	Foot cushion	4050020075010	4
	8	960 0003 408	Foot	4007000061010	2
	9	960 0126 301	Main chassis	3200210066000	1
	10	960 0120 301	Foot	4000210001000	2
	10	900 0113 006	root	4000210001000	-
	13	960 0135 305	Cord stopper	4380040162010	1
Δ	14	960 0032 301	AC cord	L061000410010	1
	15	960 0126 220	Back chassis	3207210026010	1
				Europe & U.K. Models	
	15	960 0126 217	Back chassis	3207210026110	1
				Asia Model	
Δ	17	960 0136 304	Power trans	8200480004010	4
-	.,			Europe & U.K. Models	
Δ	17	960 0136 401	Power trans	8200480004040	1
ш	''	000 0100 101	. 0101 00101	Asia Model	
	18	960 0130 203	CD mecha. ass'y	8038000900081	1
	19	960 0136 508	Mech. bracket	4010210036000	1
	20	960 0126 408		4317210001010	1
	21	960 0121 005	•	3000210006100	1
	22	960 0003 301	P.W.B. support	4070001601010	1
*	23	960 0126 709	• • •	5527067010010	1
	24	960 0127 504		L301161200010	1
*	25	960 0130 106	29P FPC	L301111290010	1
^	23	900 0130 100	235 1 50	2301111230010	'
SCRI			Corour O. (0 ORTO/R) R	D0000000000000000000000000000000000000	140
1	A	963 0108 604		B020030083B10	16
	Α	963 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10,	2
1				for 1SELECT1	
	_			Asia Model only	
	В	960 9008 006	1	B020030083F10	2
	C	963 0018 104	1	B020030171B10	1
	D	960 9003 001		B020740081B10	2
	E	963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B10	7
-					
L				MARKET CONTROL OF THE PROPERTY AND THE PROPERTY OF THE PROPERT	

PARTS LIST OF CD MECHANISM UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER	MECHA. SE	CTION (CD-780MS II)		
1	960 0046 902	Clamper plate	447000406000	1
2	960 0046 106		270000036000	1
3	960 0047 202		7600GZ3400L1	1
4	960 0163 306	` ' '	433002004101	1
5	960 0059 504		435002014201	1
6	960 0059 407		340002002101	1
7	960 0046 407		372000336000	1
8	960 0045 806	1 3	247000058000	1
9	960 0045 602		274000045000	1
10	960 0045 709	-	247000046000	1
11	960 0163 403	, 0	460002001102	1
12	960 0045 903	,	249000021000	1
13	960 0046 009		250000008000	1
14	960 0047 105		702001087000	1
15	960 0045 408	,	G70000016001	1
16	960 0041 703	i i	G22000001000	1
17	960 0163 500		L000231050010	1
18	960 0163 607		321002010101	1
19	960 0163 704		432000214000	1
20	960 0163 801		L00017106280	1
21	960 0163 908		124002013501	2
22	960 0164 004		124002013502	2
23	960 0164 101	` ′	L30114116001	1
24	960 0046 805		438000059000	2
26	960 0173 008	''	7028021010020	1
20	900 0173 000	OD NI & GIIVE F.W.D. GIIII	7020021010020	'
A	060 0000 318	Screw 3 × 10	B020HF6103B1	2
В	960 0164 208		B000HD3051B6	2
C	960 9000 321		1500HZ0780L1	5
D	960 9000 130		B020HF6083B1	3
	300 3000 100	0010410 × 0	B020111 0000B1	
W1	969 0438 004	Feed mecha. ass'y (KSM-213CCM)	8030040622010	1
	343 0400 004	1 countrol as y (Non 21000m)	0000010022010	i .
TRAVER	SE SECTION	(KSM-213CCM)	.	,
1	S26 2690 801	Slide shaft		1
7	S88 4837 931	Optical Pick up (KSS-213C)		1
8	S26 2690 701	Gear (A)		1
9	SX2 6258 711	T/T motor chassis ass'y		1
10	SX2 6257 691	Gear motor ass'y		1
11	S16 3967 812	P.W.B. ass'y		1
12	S15 7208 511	Leaf Switch		1
13	S15 6472 211	6P Connector pin		1
14	S76 2125 510	Screw 2 × 3 + P		2
				1

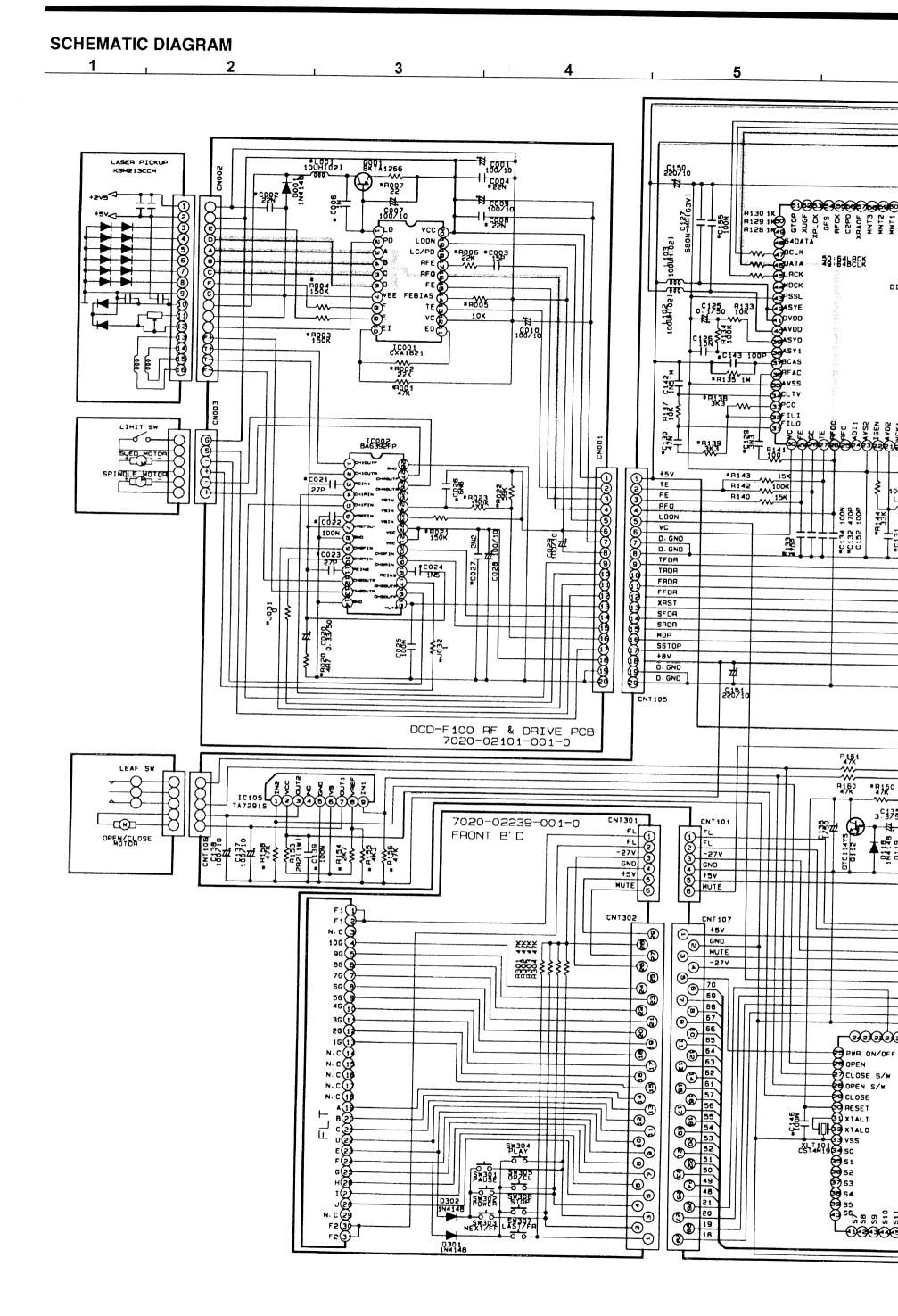


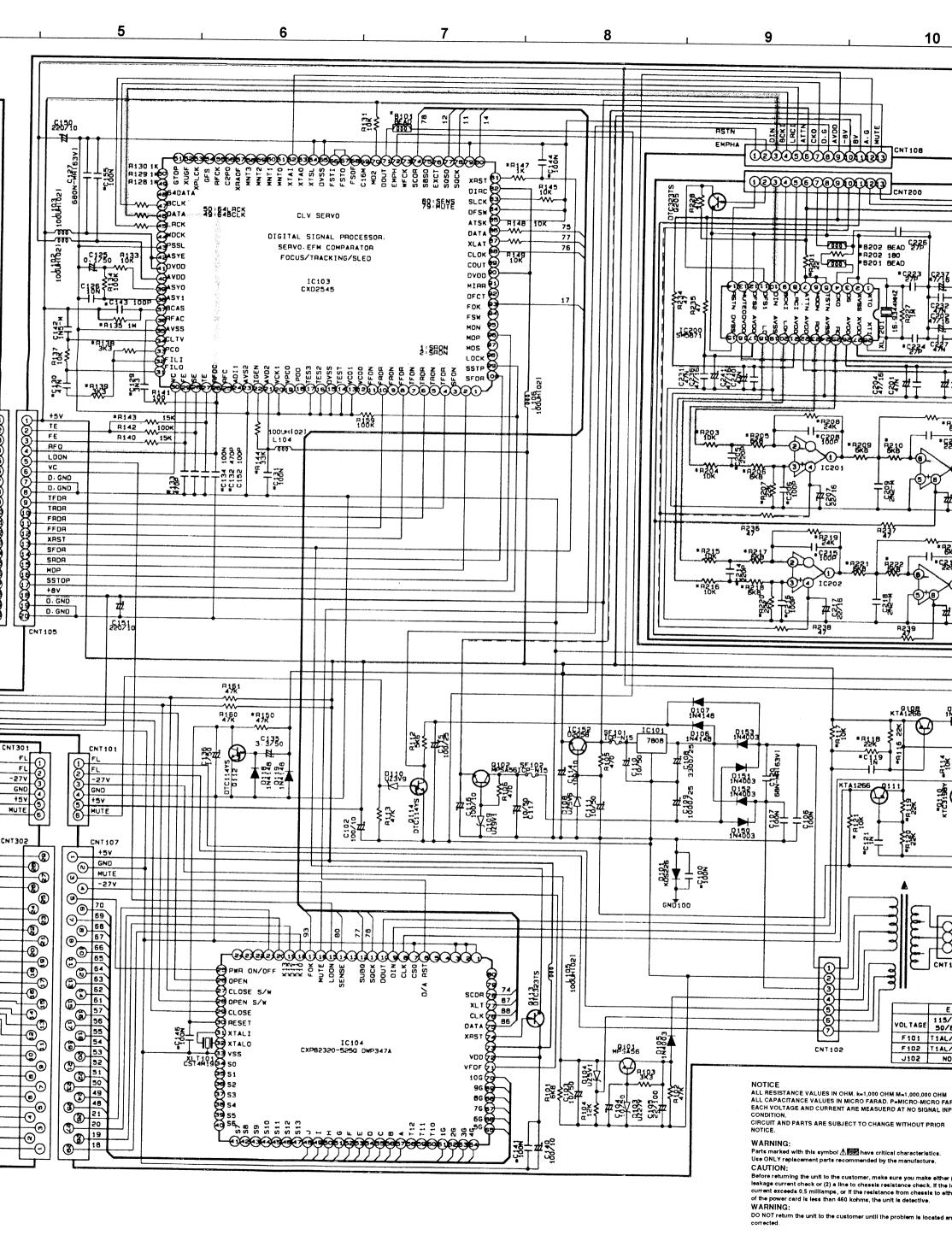


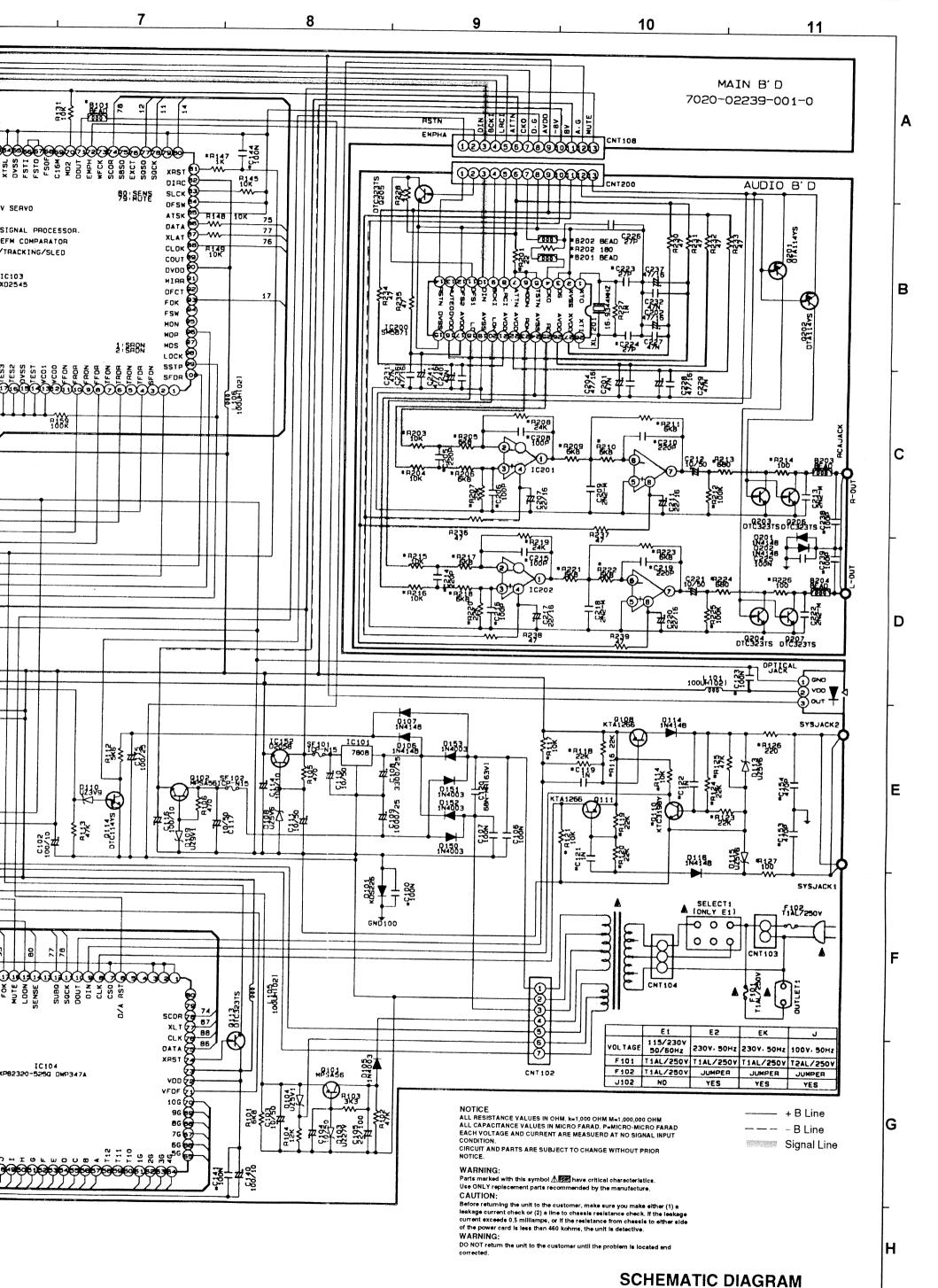
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CD PLAYER

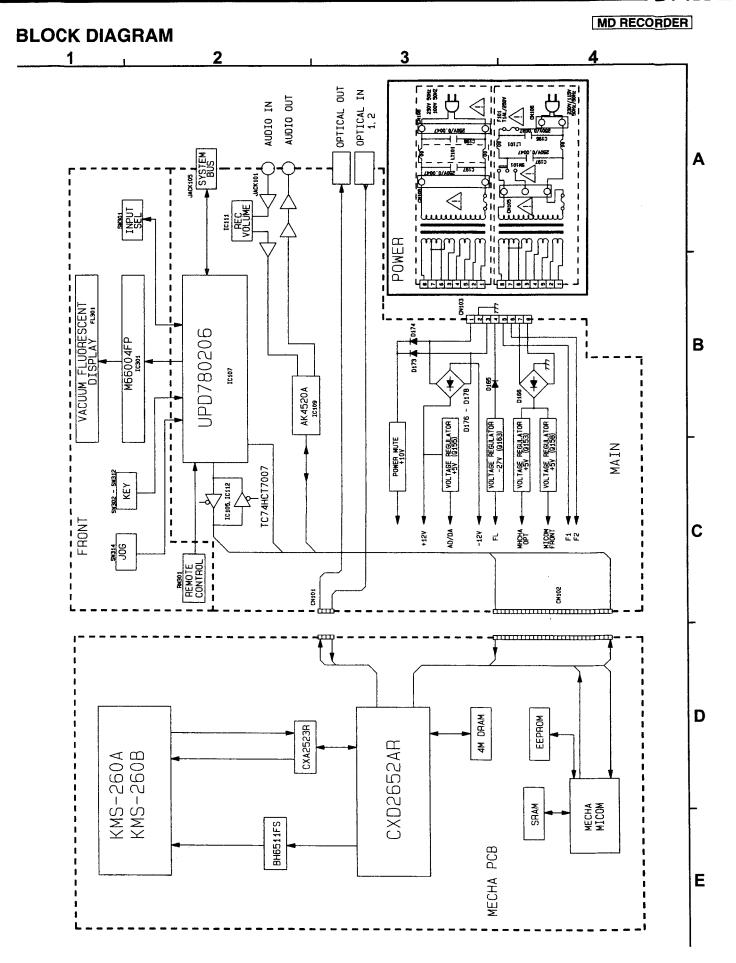
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MAIN P.W.B. UNIT

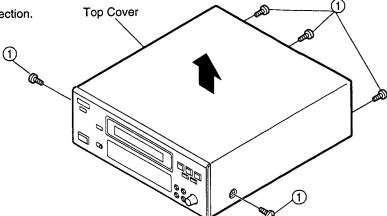


DISASSEMBLY

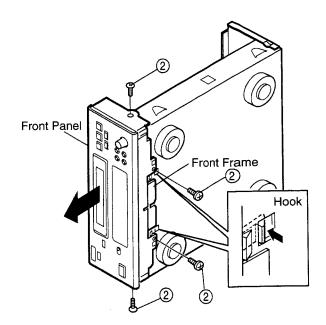
(Follow the procedure below in reverse order when reassembling)

1. Top Cover & Front Panel

- (1) Remove 5 screws 1 fixing the Top Cover.
- (2) Detach the Top Cover as shown in the arrow direction.



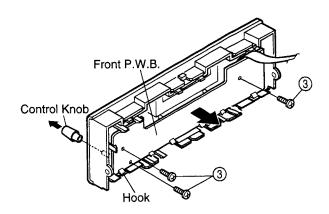
- (3) Remove 4 screws 2 on the bottom and both sides.
- (4) Disconnect 19P FPC from its connector base.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

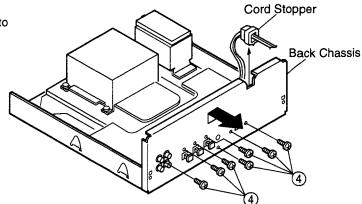
Front P.W.B.

- (1) Pull out the Control Knob to the arrow direction, and remove 3 screws (3).
- (2) Detach the Front P.W.B. with releasing 4 Hooks.



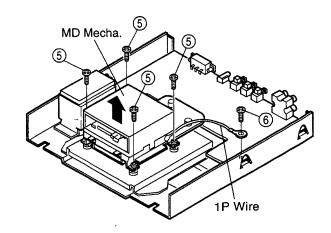
3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 7 screws (4), and detach the Back Chassis to the arrow direction.



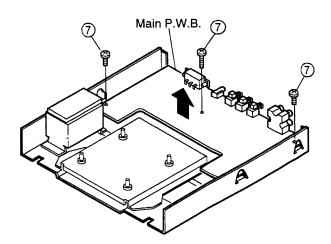
4. MD Mecha.

- (1) Remove 4 screws (5) fixing the MD Mecha.
- (2) Remove 1 screw (6) and 1P wire.
- (3) Disconnect 24P FPC and 4P Connector Cord from their connector bases.
- (4) Detach the MD Mecha. to the arrow direction.



Main P.W.B.

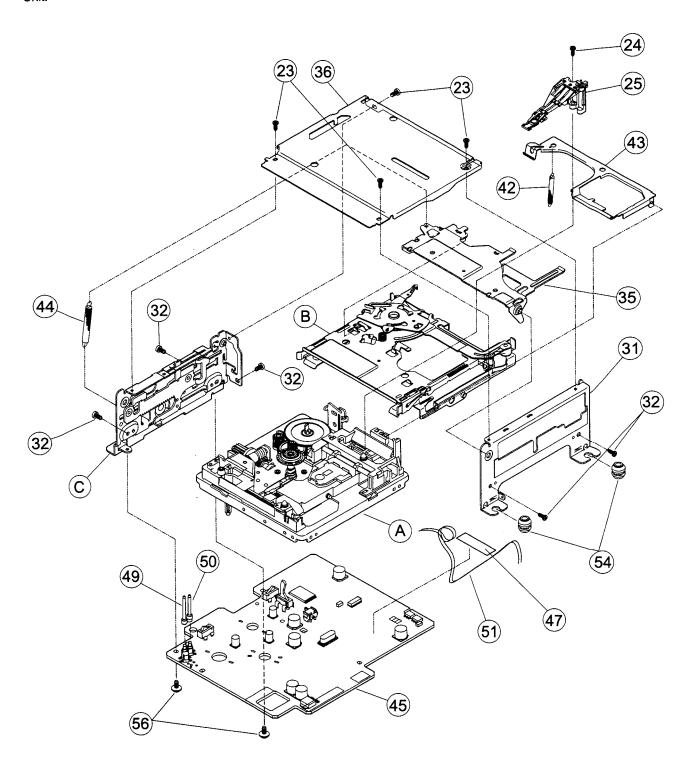
(5) Remove 3 screws (7), and detach the Main P.W.B. to the arrow direction.



DISASSEMBLY OF MD MECHA.

Main Block Disassembly/Reassembly

The MD Mecha. can be separated into Base Mechanism, Mode Switching Mechanism, Disc Loading Mechanism, and Control Unit.



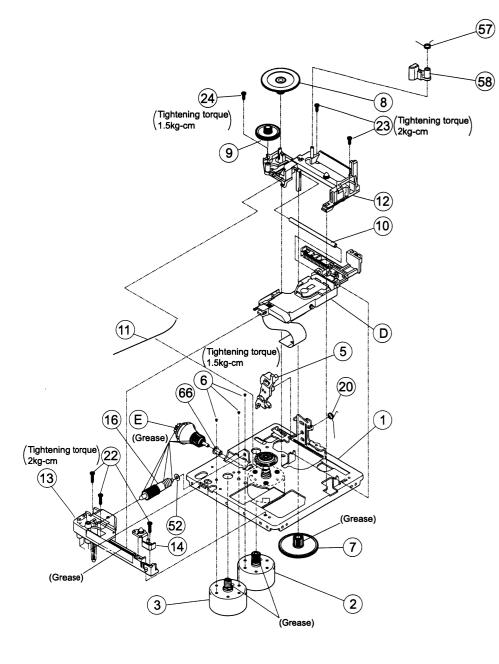
No. Disassembling Parts	Disassembling Step	Caution
45 Control Unit	(1) Peel off the Tape for fixing O/W HD Lead Wire.	Don't misplace the SW Knob (L) with (S) when reassembling.
SW Knob (L) (2) Disconnect the O/W HD Lead Wire from the Control Unit		FRONT GUAID BLK ®
® SW Knob (S)	(3) Remove solder from 6 motor terminals.	CHASSIS
	(4) Short-circuit the short land of the P/U FFC with solder.	
	(5) Disconnect the P/U FFC 48 from the Control Unit 45.	
	(6) Detach the Control Unit 45 by removing 2 screws 56.	
	(7) Remove the SW knob (L) 49 and (S) 59.	SW KNOB / The head should not protrude. * The SW Knob head protrudes
		than boss face of the Front Guide BLK if misplaced.
36 Top Plate	(1) Detach the Top Plate ® by removing 4 screws 3.	Apply screw-lock on the tip of the screw after assembling the O/W HD.
® O∕W HD	(2) Detach the O/W HD ® by removing screw 4.	Coil the Lead Wire around the Sled Base by 1-turn after assembling the O/W HD. Also, twist the Lead Wire more
4 Holder A/SPG	(3) Remove Holder A/SPG 4.	than 2-turn.
③ Side BLK (R)	(4) Detach the Side BLK (R) ③ by removing 2 screws ②.	Hooking direction should be inside.
(5) Insulator	(5) Remove 2 Insulators .	
® Disc Loading Mechanism	(6) Remove the Holder Aem 35.	
(§) Holder Arm	(7) Detach the Disc Loading Mechanism ®.	
		• When assembling the Holder A/SPG 4, its hooking direction should be as follows.
		O/W HD
		SLED BASE
		SLED BASE
© Mode Switching Mechanism	(1) Remove the Lifter SPG @.	Be careful not to deform the HD Lifter.
Lifter SPG	(2) Detach the Mode Switching Mechanism © by removing 3 screws 3.	
HD Lifter	(3) Remove the HD Lifter 43.	
a push he		Corour looks TD1401D ThreeDond

Assembly

- Follow the procedure in reverse order when reassembling.
- For screw tightening torque and grease/screw-lock apply positions, see Fig. Be careful not to strip the screws when tightening.
- Pay attention to the indication in Caution when reassembling.
- Take necessary anti-static measures when disassembling/reassembling.

Screw-lock: TB1401B ThreeBond
Grease: MOLYKOTE YM-103 DOW CORNING

Base Mechanism Disassembly/Reassembly
 The Base Mechanism can be separated into Spindle MTR Ass'y, Sled MTR Ass'y, and P/U Ass'y



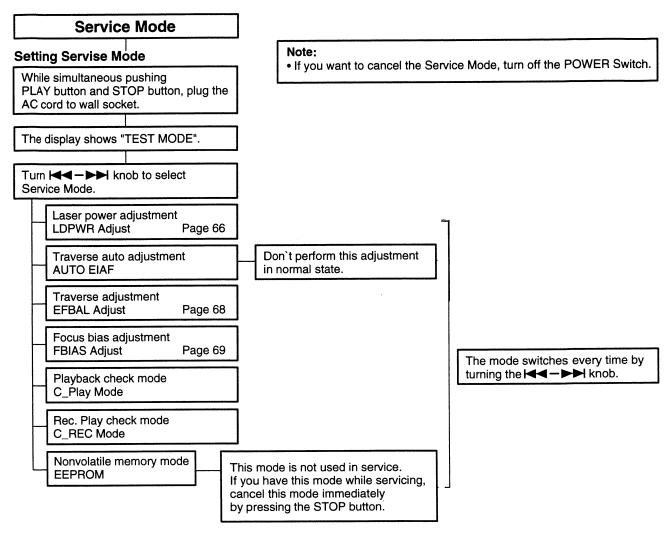
_				
Α	SSE	m	h	lν

- Follow the procedure in reverse order when reassembling.
- For screw tightening torque and grease/screw-lock apply positions, see Fig. Be careful not to strip the screws when tightening.
- Pay attention to the indication in Caution when reassembling.
- Take necessary anti-static measures when disassembling/reassembling.

No.	Disassembling Parts	Disassembling Step	Caution				
	® 2nd Gear	(1) Remove the Holder Stopper 58, SPG 59.	Remove the 2nd Gear ® with pressing the hook in 2nd Gear A				
	9 1st Gear	(2) Remove the 2nd Gear ®.	the A direction.				
	⑦ Sled Pinion	(3) Remove the 1st Gear ⑨.					
	12 Rear Guide	(4) Remove the Sled Pinion ⑦.					
	19 Shaaft P/U	(5) Detach the Rear Guide BLK ® by					
	① Spindle Stabilizer	removing 2 screws ② and 1 screws ③.	Rear Guide BLK				
	P/U Ass'y	(6) Remove the Shaft P/U (10), Spindle Stabilizer (11).	Remove the Sled Pinion ⑦ with pressing the hook in				
	Front Guide	(7) Remove the P/U Ass'y ①.	the B direction.				
	1 Locator	(8) Detach the Front Guide (1) and Locator (4)					
	® 2nd Worm	by removing 3 screws 22.	Hook				
	16 LDG Pinion	(9) Remove 2nd Worm (16), Washer (20), then LDG Clutch Ass'y (E) and Bush (66).	Sled Pinion B				
	② Sled MTR Ass'y	(10) Remove the Sled MTR Ass'y ②, LDG					
	③ LDG MTR Ass'y	MTR Ass'y ③.	When assembling the Rear Guide BLK, hang 2 hooks Rear Guide BLK to the Chassis.				
	30 SW Lever SPG	(11)Remove the SW Lever SPG 20.	to the Chassis.				
	⑤ SW Lever	(12) Remove the SW Lever ⑤.	Chassis Shaft P/U				
			When disassembling/reassembling the Sled or LDG MTR Ass'y with Chassis, be careful not to				
			make any scratch to the gear combined.				
			ທີ່ ປ H Spindle Table				
			Spindle Table 2				
			· · · · · · · · · · · · · · · · · · ·				
			SP Meral				
			No.® should be within the range of diameter-a				
			of the recess mark # after assembling.				
			When reassembling the Sled and LDG MTR Ass'y, pay attention to their terminal polarities.				
			(φ 1.0 hole should be positioned as follows.) _{φ1.0 hole}				
			LDG MTR Ass'y				
			150				
			Sled MTR Ass'y Disc insert direction				
			Sled Pinion Spindle MTR				
			Fig. shown from the bottom of the motors				
			Coroux looks TD1401D ThrooPond				

Screw-lock: TB1401B ThreeBond Crease: MOLYKOTE YM-103 DOW CORNING

CONFIRMING THE SERVO



Key Functions

Key name	Function
I◀◀-▶►I Knob	Settlement of Parameter, Mode.
ENTER	Proceed forward. Settled. (Push ◄◄ - ▶►)
STOP	Back to previous. Cancelled.
PLAY	Ejecting a disk.

Note

 In Service Mode, the function of the erase protection knob is not detected. If you press REC key, in Traverse mode or Continuous recording mode, your recorded disk may be erased. Pay attention to your disk used for it.

Notice of adjustment

When replacing the following parts, adjust and check the items marked with O.

Adimakasasa	Ontinal Biok up	Mechanism P.W. Board			
Adjustment	Optical Pick-up	U102	D1	U1, 21, 101	
1. Temperature compensation offset adjustment	×	0	0	0	
2. Laser power adjustment	0	X	×	0	
3. Traverse check	0	0	×	0	
4. Focus bias adjustment	0	0	×	0	
5. Error rate check	0	0	X	0	

Creating the MO disk of continuous recording This disk is used for the focus adjustment bias and the error rate check. The following describes how to create the MO disk of continuous recording. 1. Load a MO disk (blank disk) sold in the market. 2. Turn ◄◄ - ▶► knob to display [C_REC Mode]. 3. Press ENTER button to display [C_REC IN]. Turn ◄◄ - ►► knob to display [C_REC MID] and push ENTER button. Recording will be started. (Display starts from [201:01]) 5. Recording will be stop about 3 minutes later. (Display shows [378:01]) 6. Press PLAY button to eject the MO disk. Note: Do not apply any vibration while performing continuous recording. Laser Power adjustment LDPWR Adjust Note: • Don't look the emit lighting of the laser diode from just above to prevent you from the loss of eyesight. Pay special attention to handle the laser diode of the optical pick-up, since it is easy to have an electrostatic break. Connection Connect the digital voltmeter to TL1 (IOP) and TL2 (I+3V). TL2 (I+3V) U1 TL1 (IOP) Digital Voltmeter U103 TL1 (IOP) ➤ TL2 (I+3V) Mechanism P.W.Board Adjustment Method 1. Set the laser power meter on the object lens of the optical pick-up. (The optical pick-up is moved by pressing the manual search key.) 2. Turn ◄◄ -▶▶ knob to display [LDPWR Adjust].

- 3. Press ENTER button to display [LD\$**=+3.4mW]. (**: Adjust setting value)
- 4. Turn ◄◄ -▶▶ knob so that the reading of the laser power meter becomes 3.3 to 3.5mW.
- 5. Press ENTER button to display [LD\$**=6.8mW]. : Writing laser power adjustment
- 6. Check that the readings of the laser power meter and the digital voltmeter are within specified values below.

Specification

Reading of the laser power meter: 6.8 ±0.3mW

Reading of the digital voltmeter: ±10% of indicated value on the

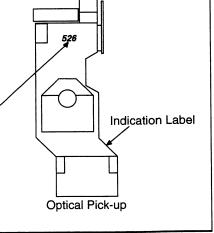
Optical Pick-up.

(Indication of the optical pick-up)

KMS260A X X X X X D 0 5 2 6

The value with handwriting is lop value. The value indicated on the label is rounded off. In case of 52.6mA, the value 52.6 is shown.

In this example, lop=52.6mA lop(mA)=The reading(mV) of digital voltmeter $\div 1$ (ohm)



- 7. Press ENTER button to display [LD\$★★=0.87mW].

 Adjust |◄◄ → ▶ knob and check that the reading of the laser power meter is 0.87 ±0.1mW.
- Press ENTER button to display [LD\$**=0.68mW].
 Adjust ◄◄ ->> knob and check that the reading of the laser power meter is 0.68 ±0.1mW.
- 9. Press ENTER button to display [LDPWR Adjust], and stop the laser emit lighting.

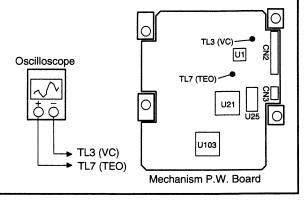
Note:

• Laser power adjustment and check should be performed at the ambient temperature 22°C \pm 2°C and humidity 50% \pm 5%. (If the ambient condition differs, the deviation values should be corrected.)

Traverse Adjustment EFBAL Adjust

Connection

Connect the oscilloscope to TL7 (TEO) and TL3 (VC)



Adjustment Method

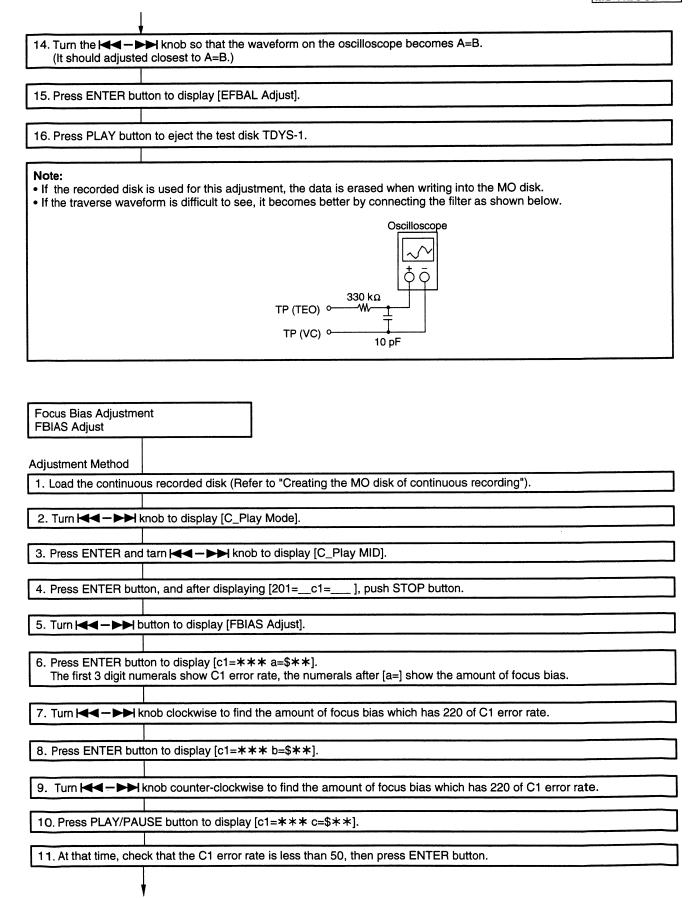
- 1. Load a MO disk sold in the market.
- 2. Turn ◄◄ ▶► knob to display [EFBAL Adjust].
- 3. Press ENTER button to display [EFBAL MO_Writ].
- 4. Press ENTER button to display [EFB=\$**MO_W]. (**=Adjust setting value)
 Adjust |◄◄ → ▶▶ knob so that the waveform on the oscilloscope becomes A=B.

(Traverse waveform)



- 5. Press ENTER button to display [EFB=\$**MO_G]. (MO groove read power traverse adjustment)
- 6. Turn I◀◀ → ▶►I knob so that the waveform on the oscilloscope becomes A=B. (It should be adjusted closest to A=B.)
- 7. Press ENTER button to display [EFBAL MO-Pit].
- 8. Press ENTER button to display [EFB=\$**MO_P].

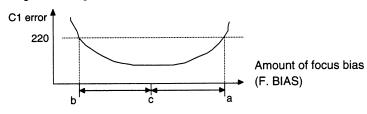
 The optical pick-up moves to the pit portion area automatically, and it is controlled by the servo.
- 9. Turn ◄◄ ▶► knob so that the waveform on the oscilloscope becomes A=B. (It should be adjusted closest to A=B.)
- 10. Press ENTER button to display [EFBAL CD], then the rotation of the disk automatically stops.
- 11. Press PLAY button to eject the MO disk.
- 12. Load the test disk TDYS-1.
- 13. Press ENTER button to be controlled by the servo. Display shows [FEB=\$**CD].

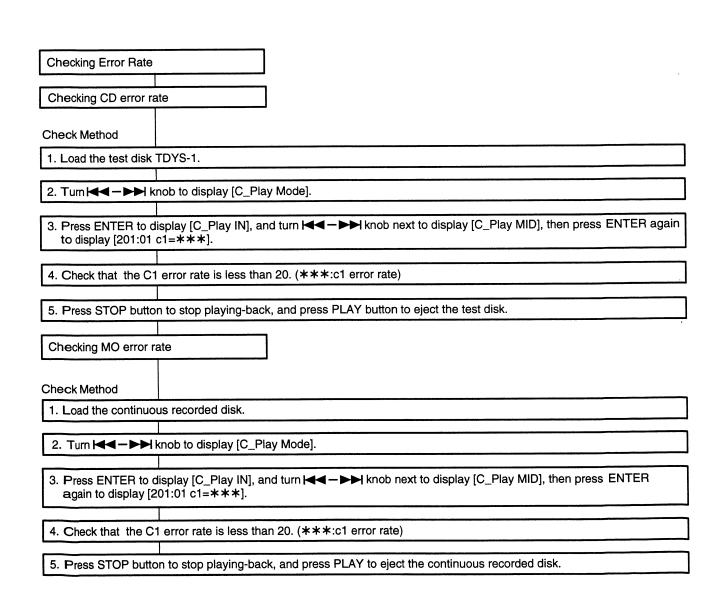


12. Press PLAY button to eject the continuous recorded disk.

Note:

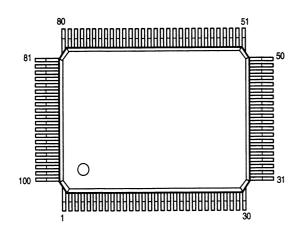
- The relation between C1 error and the amount of focus bias is shown in the figure below. Find the point a and b in the figure below after adjusting the process described above. The best focus point c can be obtained by calculating automatically from the points a, b.
- Adjust the C1 error rate by reading the average value since it has fluctuation.





SEMICONDUCTORS

μPD780206GF (IC107)



μPD780206GF Terminal Function

Pin No.	Pin Name	Symbol	1/0	Rst	lni	Act	Ext	Function
1	VDD	VDD	T-	_	_	_	_	Power supply (+5V)
2	P37	E_VOL_CLK	0	HZ	L	-		Clock signal output for E. VOL control
3	P36/BUZ	E_VOL_EN	0	HZ	L	_	P.D	Enable signal output for E. VOL control
4	P35/PCL	E_VOL_DAT	0	HZ	L	_	P.D	Data signal output for E. VOL control
5	P34/TI2	NC	1	HZ	L		_	Open (not used)
6	P33/TI1	NC		HZ	L	_	_	Open (not used)
7	P32/TO2	NC		HZ	L	_	_	Open (not used)
8	P31/TO1	NC	1	HZ	L	_		Open (not used)
9	P30/TO0	NC	ı	HZ	L			Open (not used)
10	RESET	RESET	1	HZ	Η	L	P.UP	Reset signal input
11	X2	X2	—	_	_	_	_	X'tal connect terminal
12	X1	X1	1	_	_		_	X'tal connect terminal
13	IC(Vpp)	IC(Vpp)	T —	_	_		_	GND
14	XT2	XT2	_	_	_	_		Open (not used)
15	P04/XT1	NC	1	HZ	L	_	_	Open (not used)
16	VDD	VDD	T-	_	_	_	_	Power supply (+5V)
17	P27/SCK0	SCK_A	1	HZ	Н	_	P.D	Clock signal output for serial comm. (System)
18	P26/SO0/SB1	TXD_A	0	HZ	Н	-	P.UP	Data signal output for serial comm. (System)
19	P25/SI0/SB0	RXD_A	T	HZ	Н	_	P.UP	Data signal input for serial comm. (System)
20	P24/BUSY	NC.	1	HZ	L	-	_	Open (not used)
21	P23/STB	NC	1	HZ	L	-	_	Open (not used)
22	P22/SCK1	M_DSCK	0	HZ	Н	_	P.D	Clock signal output for serial comm. (MD Mecha.)
23	P21/SO1	M_KDATA	0	HZ	Н	_	P.D	Data signal output for serial comm. (MD Mecha.)
24	P20/SI1	M_MDATA	1	HZ	L	-	_	Data signal input for serial comm. (MD Mecha.)
25	AVss	AVss	_	_	_	-	_	GND
26	P17/ANI7	NC	1	HZ	—	—	 -	Open (not used)
27	P16/ANI6	NC	1	HZ	T-	-	_	Open (not used)
28	P15/ANI5	BACKUP_CHECK	I	HZ	_	-	P.D	Input for backup power check
29	P14/ANI4	NC	1	HZ	-	T-	_	Open (not used)
30	P13/ANI3	REC_INPUT	1	HZ	T-	_	P.UF	S/W input for input select
31	P12/ANI2	KEY1	1	HZ	T-	_	P.UF	Key input signal
32		KEY0	1	HZ	I —	_	P.UF	Key input signal
33	P10/ANI0	NC	1	HZ	I —	_	_	Open (not used)
34	AVDD	AVDD	_	T-	T-	_	T-	Power supply (+5V)
35		AVREF	T-	T-	T-	T-	T-	Power supply (+5V)
36	P03/INTP3	NC	I	HZ	L	—	T —	Open (not used)
37	P02/INTP2	NC	I	HZ	L			Open (not used)
38		M_DSTB	T	HZ	L	L	_	MD Mecha. comm. request signal input
39		RMC	1	HZ	L	_	P.UF	Remote control signal input
40		Vss	T-	-	_	_	_	GND
41	P74	NC	1	HZ	L	_		Open (not used)
42		NC	1	HZ	L		_	Open (not used)

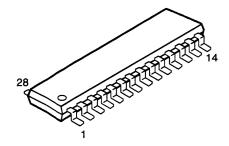
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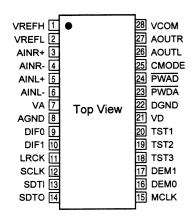
MD RECODER

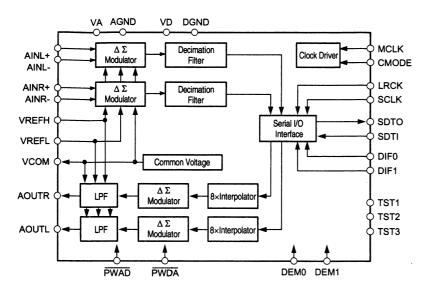
Pin No.	Pin Name	Symbol	I/O	Rst	Ini	Act	Ext	Function
43	P72	NC	\neg	HZ	L			Open (not used)
44	P71	ENCODER1_1		HZ	ī		P.UP	Encoder signal input
45	P70	ENCODER1_2	Ī	HZ	L	_		Encoder signal input
46	VDD	VDD		_	_	_		Power supply (+5V)
47	P127/FIP52	NC	1	HZ	L	_	_	Open (not used)
48	P126/FIP51	PICLED	0	HZ	L	_	_	Output signal for LED on/off
49	P125/FIP50	NC	Ī	HZ	L	_	_	Open (not used)
50	P124/FIP49	NC	ı	HZ	L	_	_	Open (not used)
51	P123/FIP48	FLCS_A	0	HZ	Н	L	P.D	Chip select output for FL controller
52	P122/FIP47	FLCK_A	0	HZ	Н	_	P.D	Clock output for FL controller
53	P121/FIP46	FLDA_A	0	HZ	Н	_	P.D	Data output for FL controller
54	P120/FIP45	RESET_A	0	HZ	Н	L	P.D	Reset signal output for FL controller
55	P117/FIP44	NC	ı	HZ	L	_	_	Open (not used)
56	P116/FIP43	NC	ı	HZ	L	_		Open (not used)
57	P115/FIP42	NC	1	HZ	L	_	_	Open (not used)
58	P114/FIP41	M_POWN	0	HZ	L	L	P.D	Backup process command terminal
59	P113/FIP40	M_RESET	0	HZ	L	L	P.D	Reset signal output for MD Mecha.
60	P112/FIP39	M_LOADIN	1	HZ	L	L		Disc loading signal input, L: Loaded
61	P111/FIP38	M_MUTE	-	HZ	L	L	_	Mute signal input, L: Mute
62	P110/FIP37	M_EMPH	-	HZ	L	L	_	Emphasis signal input, L: Emphasis
63	P107/FIP36	NC	1	HZ	L			Open (not used)
64	P106/FIP35	NC	1	HZ	L		<u> </u>	Open (not used)
65	P105/FIP34	NC	- 1	HZ	L		_	Open (not used)
66	P104/FIP33	NC	ı	HZ	L	_	_	Open (not used)
67	P103/FIP32	NC	1	HZ	L		_	Open (not used)
68	P102/FIP31	NC	1	HZ	L	L	_	Open (not used)
69	P101/FIP30	OPTION1	1	HZ	L	_	<u> </u>	Option input for area select
70	P100/FIP29	POWER_OFF_DETECT	1	HZ	L	L	P.UP	
71	P97/FIP28	NC	0	L	L	ᄂ	-	Open (not used)
72	P96/FIP27	NC	0	L	L	=	=	Open (not used)
73	P95/FIP26	NC	0	L	L	=	=	Open (not used)
74	P94/FIP25	NC	0	L	L	-	-	Open (not used)
75	P93/FIP24	NC	0	L	L	 —	-	Open (not used)
76	P92/FIP23	NC	0	L-	L	-	<u> </u>	Open (not used)
77	P91/FIP22	NC	0	L	L.	 -	+=	Open (not used)
78	P90/FIP21	NC	0	L	L	 -	+=	Open (not used)
79	VLOAD	VLOAD	<u> </u>	 -	 	\vdash	 -	Open (not used)
80	P87/FIP20	M_MICON_ON	0	l L	H	-	_	Output for backup capacitor on/off, L: On, H: Off
81	P86/FIP19	POWER_OF_CONTROL	0	L.	<u> </u>	+=	P.D	
82	P85/FIP18	BACKUP_TEST	0	L	L	H		Output for backup power detect Output for optical input 1/2 switching, L: Opt1, H: Opt2
83	P84/FIP17	DIGITAL_OUT_SELECT	0	L	- L	+-		Output for optical input 1/2 switching, L. Opt 1, 11. Opt2
84	P83/FIP16	OPTICAL_MUTE	0	L	H	L		Emphasis output signal for D/A control
85	P82/FIP15	EMPHA_A	0	<u> </u>	L	H		Reset output signal for D/A control
86	P81/FIP14	ADRESET_A	0	는	는			Output signal for analog output mute
87	P80/FIP13	AMUTE_A	0	<u> </u>	1	╁┺	12.0	Open (not used)
88	FIP12	NC NC	0	1	<u> </u>	+=	+=	Open (not used)
89	FIP10	NC NC	0	L	<u> </u>	+-	+=	Open (not used)
90	FIP10	NC NC	0	<u> </u>	<u> </u>	+=	+ =	Open (not used)
91	FIP9	NC NC	0	<u> </u>	L	+=	+=	Open (not used)
92	FIP8	NC NC	0	L	1	+=	+ =	Open (not used)
93	FIP6	NC	0	+ =	L	+=	$+ \equiv$	Open (not used)
95	FIP5	NC NC	0	1	<u> </u>	+ =	+=	Open (not used)
96		NC	0	ᅡ	냔	+	+=	Open (not used)
97		NC	0	+ =	1	+=	+=	Open (not used)
98		NC	0	+-	1	+=	+=	Open (not used)
99		NC	10	1	1	1=	+-	Open (not used)
-	FIP0	NC	10	+-	<u>-</u>	1	+=	Open (not used)
100	1. " 0							1:1-1

71

AK4520-VF (IC109)



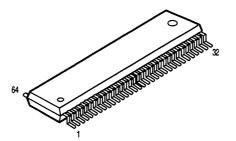


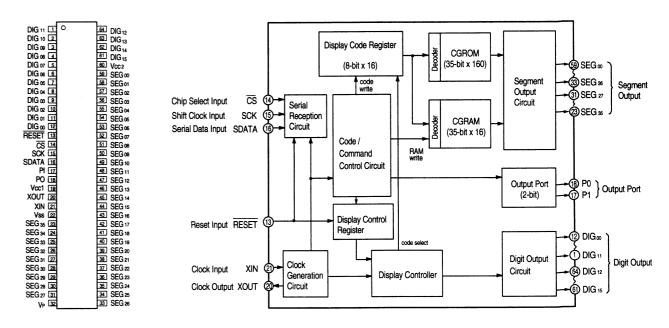


AK4520-VF Terminal Function

Pin No.	Pin Name	1/0	Function
1	VREFH	ı	Positive voltage reference input pin, VA. Used with ADC and DAC as positive reference voltage. VREFH is connected to VA, throngh external filter.
2	VREFL	1	Negative voltage reference input pin, AGND. Used with ADC and DAC as negative reference voltage. VREFL is externally connected to AGND.
3	AINR+		Rch analog positive input pin.
4	AINR-	1	Rch analog negative input pin.
5	AINL+	1	Lch analog positive input pin.
6	AINL-	1	Lch analog negative input pin.
7	VA	_	Analog power pin.
8	AGND		Analog GND pin.
9	DIF0	ı	Audio data exchange format pin.
10	DIF1	1	Audio data exchange format pin.
11	LRCK	ı	Input output channel clock pin.
12	SCLK	1	Audio serial data clock pin.
13	SDTI	1	Audio serial data input pin.
14	SDTO	0	Audio serial data output pin.
15	MCLK	-	Master clock input pin.
16	DEM0	ı	De-emphasis frequency select pin.
17	DEM1	1	De-emphasis frequency select pin.
18	TST3	1/0	
19	TST2	1/0	Test pin, connect to DGND or leave open.
20	TST1	1	
21	VD		Digital power pin.
22	DGND		Digital GND pin.
23	PWDA	1	DAC power down mode pin.
24	PWAD	1	ADC power down mode pin.
25	CMODE	1	Master clock select pin. "H": 384fs, "L": 256fs
26	AOUTL	0	Lch analog output pin.
27	AOUTR	0	Rch analog output pin.
28	VCOM	0	Common voltage output pin, VA/2.

M66004FP (IC301)





M66004FP Terminal Function

Symbol	Name	Function
RESET	Reset Input	Initializes internal state of M66004.
<u>cs</u>	Chip Select Input	Able to communicate with MCU in "L" mode. Command from MCU will be disregareded in "H" mode.
SCK	Shift Clock Input	Shifts input data at rise from "L" to "H".
SDATA	Serial Data Input	Inputs character code or command data needed to display from MSB.
Xin	Clock Input	Sets oscillation frequency by connecting external resistor and capacitor (maximum oscillation frequency fosc (max)=1MHz). Also feasible to apply external clock. In this
Хоит	Clock Output	case, inject external clock to Xin terminal and open Xout terminal.
DIG 00 ~ DIG15	Digit Output	Connect to digit terminal of VFD. DIG00~DIG15 correspond to the 1st figure to 16th figure respectively.
SEG 00 ~ SEG 35	Segment Output	Connect to segment terminal of VFD. For corresponding SEG00~SEG35 to segment terminal of VFD, refer to the figure right.
P0, P1		Output port (static operation).
Vcc1		Positive power supply terminal for internal logic.
Vcc2		Positive power supply terminal for high tension output port.
Vss		GND terminal.
Vp		Negative power supply terminal for VFD drive.

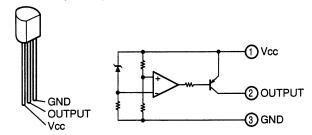
(Forwardi	ing connection of	segment	t output	terminal.)
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☐ in the right figure indicates 1 dot of segment, the figure in ☐ shows the segment output
terminal number (00 ~ 35) to be connected.

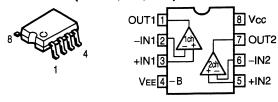
00	01	02	03	04	
)5	O 6	07	80	09	
10	11	12	13	14	
15	16	17	18	19	
20	21	22	23	24	
25	26	27	28	29	
30	31	32	33	34	

35

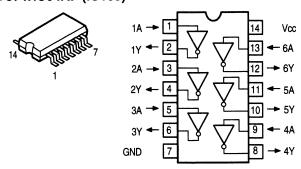
PST600C (IC108)



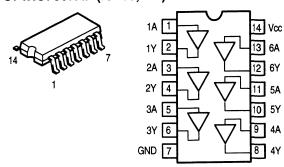
NJM4565MD (IC 101,102, 110)



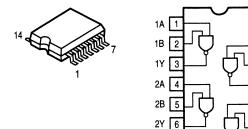
TC74HC04AF (IC103)



TC74HC7007AF (IC105,112)

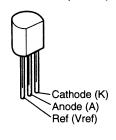


TC74HC004AF (IC104)

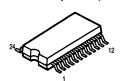


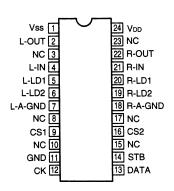
GND 7

TL431CLP (IC113)



KIC9459F (IC111)





KIC9459F Terminal Function

14 Vcc

13 4B

11 4Y

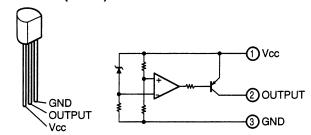
10 3B

9 3A

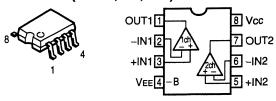
8 3Y

Symbol	Name	Description	Note
Vss	Power terminal (-)	VDD=6.0~17v Dual power use — GND=0v	
VDD	Power terminal (+)	└─ VSS=6.0~-17v	
GND	Digital GND	Single power use VDD=6.0~18v GND=VSS=0v	
L-OUT	V-1	OUT O-	
R-OUT	Volume output	0010	
L-IN	14-1	7.4kohm A1 26.3kohm	
R-IN	Volume input	LD1 0 7.4kohm	
L-LD1		LD2 0 \$18.7kohm	
R-LD1	Tap output for loudness	LA2	_
L-LD2	Tap output for loudiness	A-GND O	
R-LD2		LA1 LA2	
L-A-GND	Analog common	Loudness "ON" ON OFF Loudness "OFF" OFF ON	
R-A-GND	Analog common	Loudiess OFF OFF ON	
CS1	0	Chip select code switching input.	
CS2	Chip select input	Max 4 units can be used simultaneously on ansame bus.	
СК	Clock input	Clock input for data transfer	
DATA	Data input	Serial data input for volume setting	Low threshold input terminal
STB	Strobe input	Strobe input for data write	
NC	No connection		

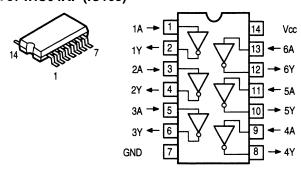
PST600C (IC108)



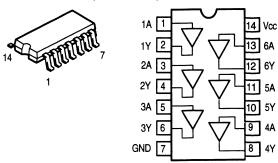
NJM4565MD (IC 101,102, 110)



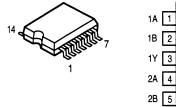
TC74HC04AF (IC103)

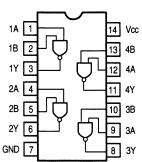


TC74HC7007AF (IC105,112)

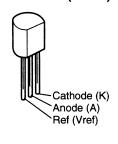


TC74HC004AF (IC104)

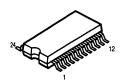


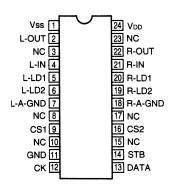


TL431CLP (IC113)



KIC9459F (IC111)



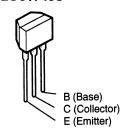


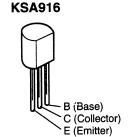
KIC9459F Terminal Function

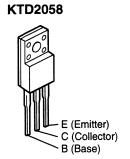
KIC9459F Terminal Function				
Symbol	Name	Description	Note	
Vss	Power terminal (-)	Dual power use GND=0v		
Voo	Power terminal (+)	─VSS=6.0~-17v		
GND	Digital GND	Single power use VDD=6.0~18v GND=VSS=0v		
L-OUT	V-1	OUT O		
R-OUT	Volume output	0010		
L-IN	V-1 i 4	7.4kohm A1 26.3kohm		
R-IN	Volume input	LD1 0 7.4kohm 20.3kom		
L-LD1		LD2 0 \$18.7kahm		
R-LD1	Tap output for loudness	LA2		
L-LD2	Tap output for loudiness	A-GND O		
R-LD2		LA1 LA2		
L-A-GND	Analog common	Loudness "ON" ON OFF Loudness "OFF" OFF ON		
R-A-GND	Analog common	Loudiess Of T OFF ON		
CS1	Ohio and and in an a	Chip select code switching input.		
CS2	Chip select input	Max 4 units can be used simultaneously on ansame bus.		
СК	Clock input	Clock input for data transfer		
DATA	Data input	Serial data input for volume setting	Low threshold input terminal	
STB	Strobe input	Strobe input for data write		
NC	No connection			

OTRANSISTORS

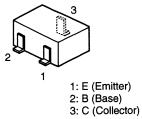
2SC1740S



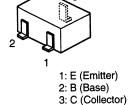


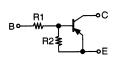




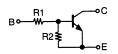


DTA124EK DTC124EK DTC343TK

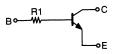




	R1	R2
DTA124EK	22kohm	22kohm



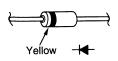
	R1	R2
DTC124EK	22kohm	22kohm

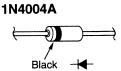


	R1
DTC343TK	4.7kohm

ODIODES

1SS133

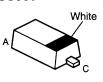




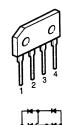




1SS355



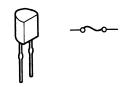
D2SBA60





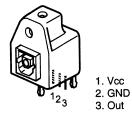
OIC PROTECTOR

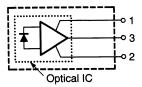
ICP-N15/ICP-N25 (IC120~122)



OPTICAL INPUT

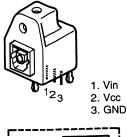
GP1F32R (JACK102,103)

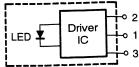




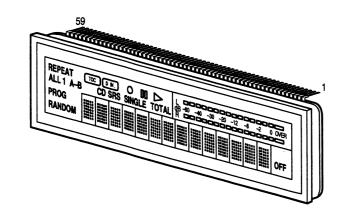
OPTICAL OUTPUT

GP1F32T (JACK104)

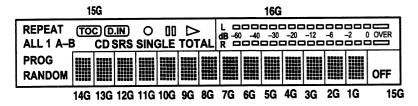




●FL DISPLAY 16-ST-13GK (FL301)



Grid Partition



1.1 2.1 3.1 4.1 5.1 1.2 2.2 3.2 4.2 5.2 1.3 2.3 3.3 4.3 5.3 1.4 2.4 3.4 4.4 5.4 1.5 2.5 3.5 4.5 5.5 1.6 2.6 3.6 4.6 5.6 1.7 2.7 3.7 4.7 5.7

(14G ~ 1G)

Pin Connection

Pin No.	12	11	10	9	8	7	6	5	4	3	2	1
Conection	8G	7G	6G	5G	4G	3G	2G	1G	NΡ	NΡ	F1	F1
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13
Conection	P4	P3	P2	P1	16G	15G	14G	13G	12G	11G	10G	9G
			,									_
Pin No.	36	35	34	33	32	31	30	29	28	27	26	25
Conection	P16	P15	P14	P13	P12	P11	P10	P9	P8	P 7	P6	P5
												_
		ı				1	1			1	l	I

Pin No.	48	47	46	45	44	43	42	41	40	39	38	37	
Conection	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	
										r	T	1	

 Pin No.
 59
 58
 57
 56
 55
 54
 53
 52
 51
 50
 49

 Conection
 F2
 F2
 NP
 NP
 P35
 P34
 P33
 P32
 P31
 P30
 P29

 Note:
 1. F1, F2
 Filament
 Filament

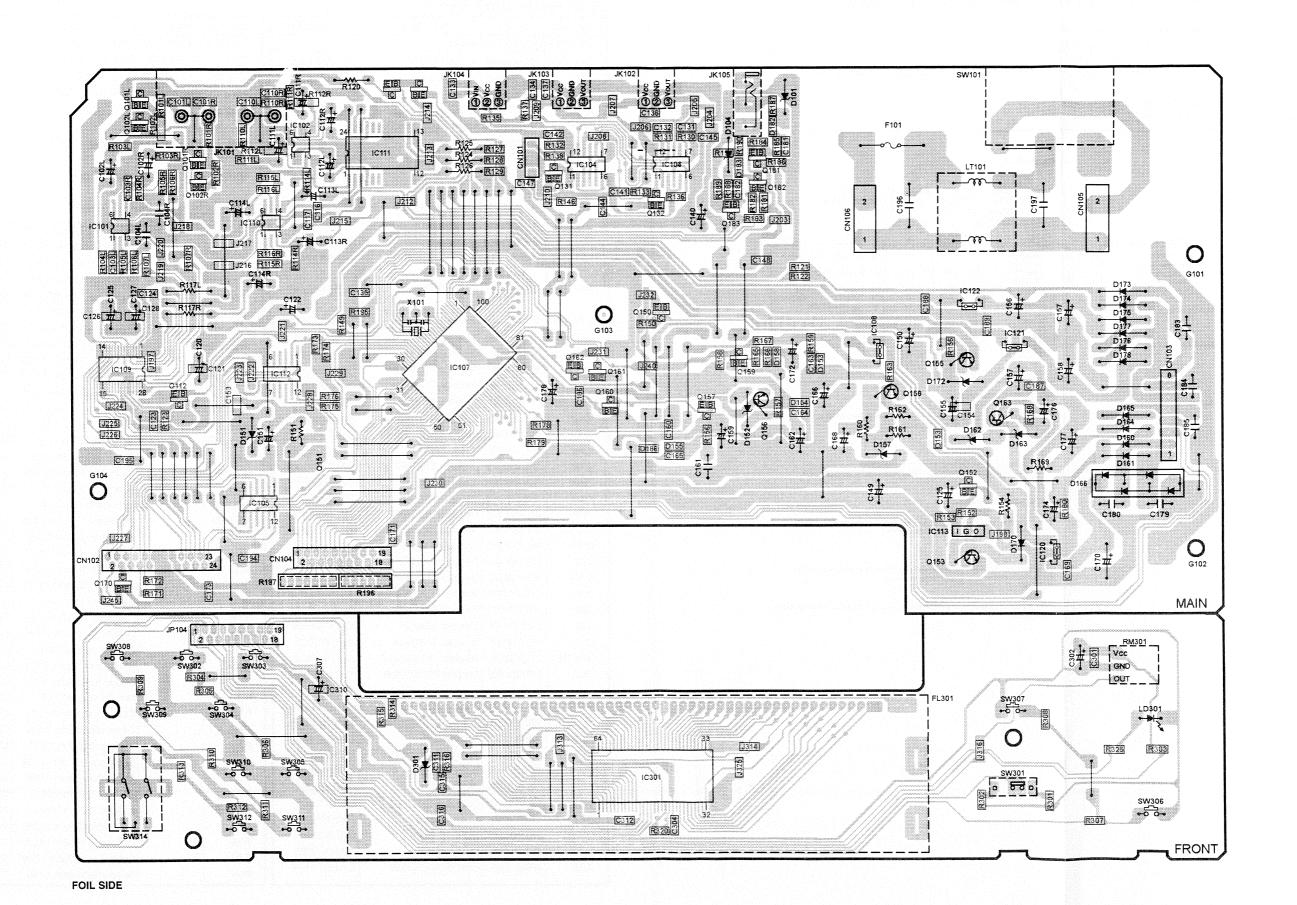
2. NP······No Pin
3. DL·····Datum Line
4. 1G~16G····Grid

Anode Connection

7111040			
	16G	15G	14G ~ 1G
P1	R1	TOTAL	1-1
P2	R2		2-1
P3	R3	SINGLE	3-1
P4	R4	00	4-1
P5	R5	0	5-1
P6	R6	CDSRS	1-2
P7	R7	(D.IN)	2-2
P8	R8	TOC	3-2
P9	R9	В	4-2
P10	R10	A-	5-2
P11	R11	1	1-3
P12	R12	REPEAT	2-3
P13	R13	ALL	3-3
P14	R14	PROG	4-3
P15	R15	RANDOM	5-3 1-4
P16	R16	_	1-4
P17	_	_	2-4
P18	S1	_	3-4
P19	L1	_	4-4
P20	L2	_	5-4
P21	L3	_	1-5
P22 P23	L4		2-5 3-5
P23	L5		3-5
P24	L6		4-5
P25	L7	_	5-5
P26	L8		1-6
P27	L9		2-6
P28	L10	_	3-6
P29	L11	_	4-6
P30	L12	_	5-6
P31	L13		1-7
P32	L14	_	2-7
P33	L15	_	3-7
P34	L16	_	4-7
P35		OFF	5-7
FJJ		J 011	

В

MD RECORDER



E

D-F100

MD RECORDER

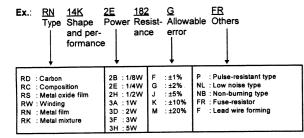
NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

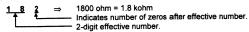
WARNING:

Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

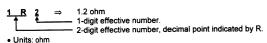
Resistors



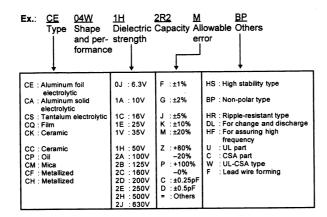
* Resistance



Units: ohm



Capacitors



* Capacity (electrolyte only)

2 2 3 ⇒ 2200µF
Indicates number of zeros after effective number.
2-digit effective number.

* Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022µF

— (More than 2)—Indicates number of zeros after effective number.

2-digit effective number.

 \bullet Units: $\mu F.$

2 1 ⇒ 220pF Indicates number of zeros after effective number.

• Units: pF.

 When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT MAIN P.W.B. UNIT ASS'Y

H	Ref. No.	Part No.	Part Name		Ref. No.			
	SEMICON	DUCTORS G	ROUP		D173~178	960 0117 608	Diode 1N4004A	K040400400520
Г	IC101,C102	928 0035 809	IC NJM4565MD	J121456500040	D181	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
1	IC103	262 2229 908	IC TC74HC04AF	J040740400060	D182,183	960 0117 501	Diode 1SS355	K005035500010
1	IC104	960 0133 200	IC TC74HC00	J040740000130	D184	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
1	IC105	262 2376 903	IC TC74HCT7007AF	J040747007010	D185,186	960 0117 501	Diode 1SS355	K005035500010
1	IC107	960 0135 923	IC UPD780206GF058-3BA		v			
1	IC108	960 0119 208	IC PST600C	J125600200020	D301	9L2 3481 42M	Zener diode MTZJ7.5B	K06007R544520
1	IC109	9LC K077 11R	IC AK4520A-VF-E2	J040452000010				
1	IC110	928 0035 809	IC NJM4565MD	J121456500040	LD301	960 0134 403	LED PI3-RD/HL	K500032002080
1	IC111	960 0133 307	IC KIC9459F	J084945900010	1.			
	IC112	262 2376 903	IC TC74HCT7007AF	J040747007010	RESISTO	RS GROUP		
1	IC113	960 0133 006	IC TL431CLP	J126431000010	R101L,101R	TIO GITTOO!	Carbon chip 100 ohm 1/10W	C200010160200
1	IC120	268 0075 000	IC ICP-N25	J120002500010	R101L,101R		Carbon chip 220 ohm 1/10W	C200022160200
1	IC121,122	268 0073 002	IC ICP-N15	J120001500010	R103L,103R		Carbon chip 220 ohm 1/10W	C200022160200
1					R104L,104R		Carbon chip 8.2 kohm 1/10W	C200082260200
1	IC301	262 1954 009	IC M66004FP	J127660040010	R105L,105R		Carbon chip 4.7 kohm 1/10W	C200047260200
1					R106L,106R		Carbon chip 4.7 kohm 1/10W	C200047260200
	Q101L,101R	269 0104 903	Transistor DTC343TK	J5220343T0210	R107L,107R		Carbon chip 220 ohm 1/10W	C200022160200
	Q102L,102R	269 0104 903	Transistor DTC343TK	J5220343T0210	R110L,110R		Carbon chip 1 kohm 1/10W	C200010260200
1	Q110	269 0102 905	Transistor DTC124EK	J5220124E0210	R111L,111R		Carbon chip 100 kohm 1/10W	C200010460200
	Q111	269 0119 901	Transistor DTA124EK	J5200124E0210	R112L,112R		Carbon chip 100 kohm 1/10W	C200010460200
1	Q112	269 0102 905	Transistor DTC124EK	J5220124E0210	R114L,114R		Carbon chip 100 kohm 1/10W	C200010460200
1	Q131,132	269 0102 905	Transistor DTC124EK	J5220124E0210	R115L,115R		Carbon chip 10 kohm 1/10W	C200010360200
1	Q150	269 0102 905	Transistor DTC124EK	J5220124E0210	R116L,116R		Carbon chip 27 kohm 1/10W	C200027360200
1	Q151	273 0178 022	Transistor 2SC1740SR	J5021740S0010	R117L,117R		Carbon film 470 ohm 1/5W	C00004716P520
1	Q152	269 0102 905	Transistor DTC124EK	J5220124E0210	R120		Carbon chip 680 ohm 1/10W	C200068160200
١	Q153	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R121,122		Carbon chip 3.3 kohm 1/10W	C200033260200
1	Q154	269 0102 905	Transistor DTC124EK	J5220124E0210	R123		Carbon chip 10 kohm 1/10W	C200010360200
	Q155	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R124~126		Carbon film 1 kohm 1/5W	C00001026P520
1	Q156	273 0178 022	Transistor 2SC1740SR	J5021740S0010	R127~133		Carbon chip 100 kohm 1/10W	C200010460200
1	Q157	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R135		Carbon chip 220 ohm 1/10W	C200022160200
1	Q158	960 0004 902	Transistor KTD2058Y	J5032058Y0140	R136		Carbon chip 10 kohm 1/10W	C200010360200
١	Q159	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	R137		Carbon chip 430 ohm 1/10W	C200043160200
1	Q160	269 0102 905	Transistor DTC124EK	J5220124E0210	R138		Carbon chip 220 ohm 1/10W	C200022160200
-	Q161	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R139		Metal film 47 ohm 1/4W	C060047063050
-	Q162	1	Transistor DTC124EK	J5220124E0210	R146		Carbon chip 220 ohm 1/10W	C200022160200
-	Q163	960 0133 103		J5000916Y0050	R150		Carbon chip 10 kohm 1/10W	C200010360200
	Q170	269 0102 905		J5220124E0210	R151		Metal film 100 ohm 1/4W	C060010163050
-	Q181,182	271 0238 908		J5201037K0210 J5222412K0210	R152		Carbon chip 1.5 kohm 1/10W	C200015260200
-	Q183	273 0384 900	Transistor 2SC2412K(S)	J3222412R0210	R153		Carbon chip 1.6 kohm 1/10W	C200016260200
1	D1E1	000 0120 700	Zener diode MTZJ3.6B	K06003R644520	R154		Metal film 220 ohm 1/4W	C060022163050
-	D151	960 0132 706	Zener diode MTZJ4.7B	K06004R744520	R155		Carbon chip 1 kohm 1/10W	C200010260200
١	D152	960 0132 803	1	K005035500010	R156		Carbon chip 100 ohm 1/10W	C200010160200
	D153~155		Zener diode MTZJ6.2B	K06006R244520	R157		Carbon chip 56 ohm 1/10W	C200056060200
١	D157	960 0093 704	laa	K005035500010	R158		Carbon chip 100 kohm 1/10W	1
- 1	D158,159 D160,161	276 0401 905		K000013300520	R159		Carbon chip 4.7 kohm 1/10W	C200047260200
- 1		1		K06015R044520	R160		Metal film 100 ohm 1/4W	C060010163050
	D162,163 D164,165	960 0132 900 960 0117 608	l	K040400400520	R161,162		Metal film 560 ohm 1/4W	C060056165050
	D164,165	960 0117 606	1	K047400300020	R163		Carbon chip 750 ohm 1/10W	C200075160200
	D100	960 0133 909	l	K040400400520	R165		Carbon chip 100 ohm 1/10W	C200010160200
	D170 D172	276 0664 904		K06005R644520	R166		Carbon chip 100 kohm 1/10W	1
L	0112	270 0007 304	25/10/ 01000 #1/200.00		R167		Carbon chip 10 kohm 1/10W	C200010360200

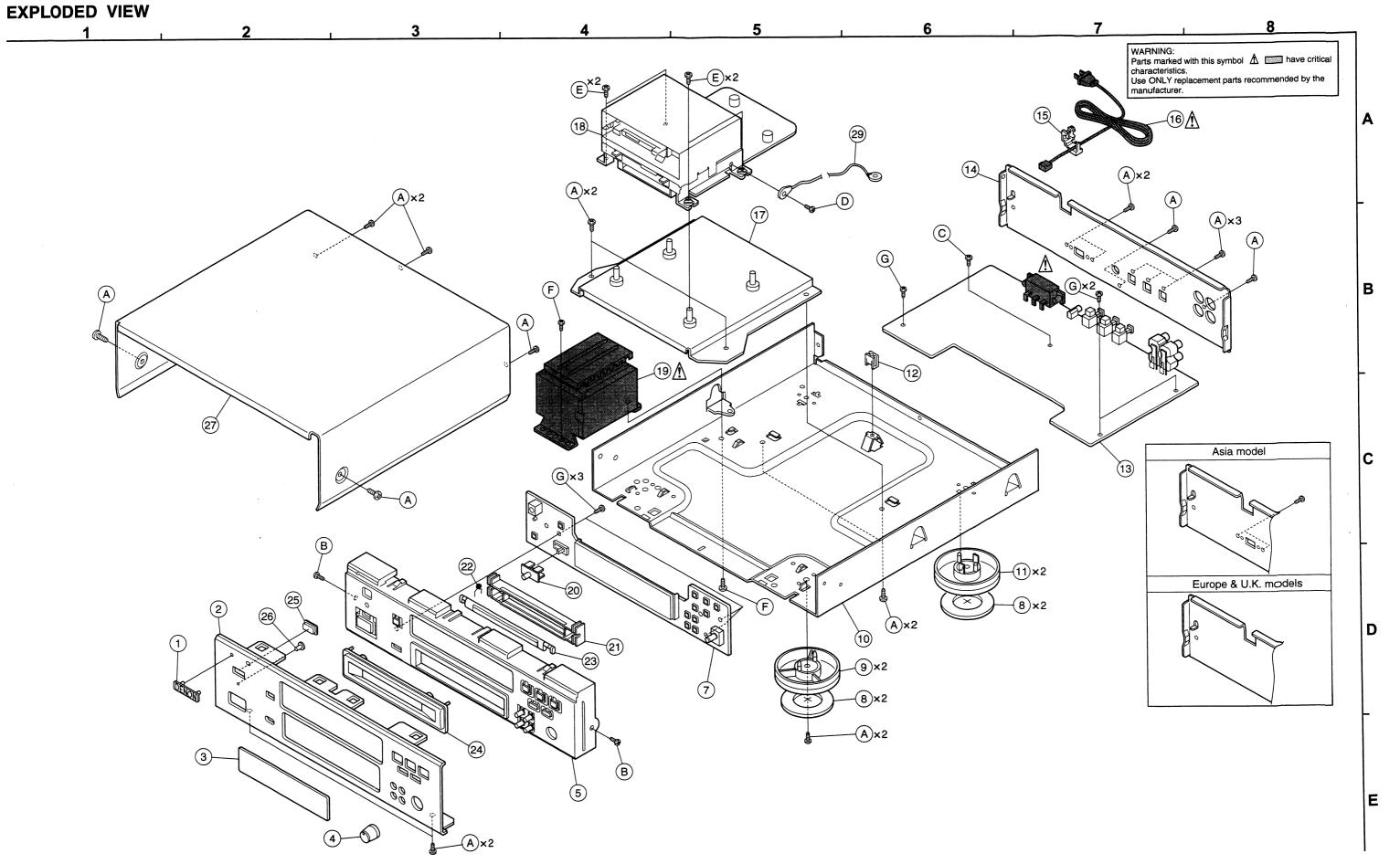
78

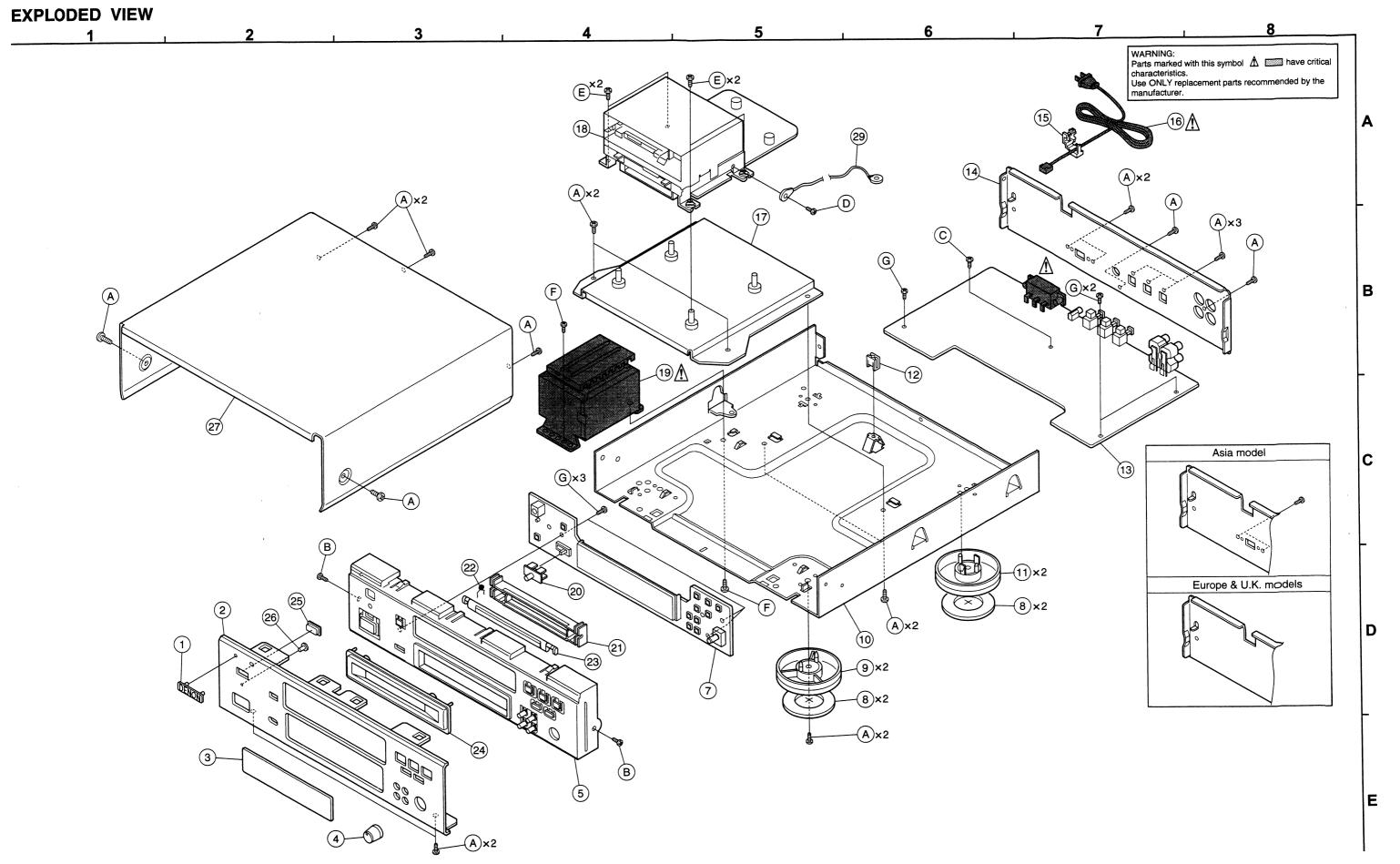
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R168		Carbon chip 2.2 kohm 1/10W	C200022260200	C127		Electrolytic 10 μF/50V	D040100087050
R169		Metal film 4.7 ohm 1/4W	C0604R7063050	C128		Ceramic chip 0.1 μF/50V	D011104597200
R171~176		Carbon chip 47 kohm 1/10W	C200047360200	C131		Ceramic chip 10 pF/50V	D010100117200
R178		Carbon chip 100 kohm 1/10W	C200010460200	C132		Ceramic chip 10 pF/50V	D010100117200
R180		Carbon chip 1.8 kohm 1/10W	C200018260200	C133		Ceramic chip 0.047 μF/50V	D011473597200
R181~183		Carbon chip 10 kohm 1/10W	C200010360200	C134,135		Ceramic chip 0.1 μF/50V	D011104597200
R184,185		Carbon chip 22 kohm 1/10W	C200022360200	C136,137		Ceramic chip 0.047 μF/50V	D011473597200
R186		Carbon chip 1 kohm 1/10W	C200010260200	C140		Electrolytic 100 μF/10V	D040101082060
R187		Carbon chip 100 ohm 1/10W	C200010160200	C141,142		Ceramic chip 0.01 μF/50V	D011103597200
R188,189		Carbon chip 10 kohm 1/10W	C200010360200	C144,145		Ceramic chip 0.01 µF/50V	D011103597200
R190		Carbon chip 220 ohm 1/10W	C200022160200	C146,147		Ceramic chip 220 pF/50V	D010221167200
R191		Carbon chip 47 kohm 1/10W	C200047360200	C148		Ceramic chip 0.01 µF/50V	D011103597200
R195		Carbon chip 100 kohm 1/10W	C200010460200	C149		Electrolytic 1000 µF/6.3V	D040102081050
R196		Resistor network 10 kohm×4	C180103050500	C150		Electrolytic 470 μF/6.3V	D040471081060
R197		Resistor network 10 kohm×6	C180103070500	C151		Electrolytic 100 μF/10V	D040101082060
11.01				C152		Electrolytic 10 µF/50V	D040100087050
R301		Carbon chip 4.7 kohm 1/10W	C200047260200	C153,154		Ceramic chip 0.01 μF/50V	D011103597200
R302		Carbon chip 100 ohm 1/10W	C200010160200	C155		Electrolytic 10 µF/50V	D040100087050
R303		Carbon chip 47 ohm 1/10W	C200047060200	C156		Electrolytic 330 μF/16V	D040331083200
R304		Carbon chip 1.8 kohm 1/10W	C200018260200	C157,158	960 0133 501	Electrolytic 2200 μF/16V	D040222083080
R305		Carbon chip 2.7 kohm 1/10W	C200027260200	C159		Electrolytic 100 μF/10V	D040101082060
R306		Carbon chip 4.7 kohm 1/10W	C200047260200	C160		Ceramic chip 0.01 µF/50V	D011103597200
R307		Carbon chip 8.2 kohm 1/10W	C200082260200	C161	960 0133 608	Electric double layer 1 F/5.5V	D090105000010
R308		Carbon chip 22 kohm 1/10W	C200022360200	C162		Electrolytic 100 μF/10V	D040101082060
R309		Carbon chip 1.8 kohm 1/10W	C200018260200	C163~165		Ceramic chip 0.01 µF/50V	D011103597200
R310		Carbon chip 2.7 kohm 1/10W	C200027260200	C166		Electrolytic 470 µF/6.3V	D040471081060
R311		Carbon chip 4.7 kohm 1/10W	C200047260200	C168		Electrolytic 22 μF/16V	D040220083070
R312		Carbon chip 8.2 kohm 1/10W	C200082260200	C169		Ceramic chip 0.01 μF/50V	D011103597200
R313		Carbon chip 22 kohm 1/10W	C200022360200	C170	960 0133 404	Electrolytic 10000 μF/16V	D040103083020
R314,315		Carbon chip 100 ohm 1/10W	C200010160200	C171		Ceramic chip 0.01 µF/50V	D011103597200
R316		Carbon chip 10 kohm 1/10W	C200010360200	C172		Electrolytic 1 μF/50V	D040010087050
R320	1	Carbon chip 27 kohm 1/10W	C200027360200	C173		Ceramic chip 0.01 µF/50V	D011103597200
R325		Carbon chip 330 ohm 1/10W	C200033160200	C174		Electrolytic 47 μF/16V	D040470083080
11020				C175		Electrolytic 100 μF/50V	D040101087060
				C176		Electrolytic 10 µF/50V	D040100087050
CAPACIT	ORS GROU	P		C177		Electrolytic 100 μF/50V	D040101087060
C101L,101R		Ceramic chip 470 pF/50V	D010471167200	C178		Electrolytic 100 μF/10V	D040101082060
C102L,102R		Electrolytic 22 μF/16V	D040220083070	⚠ C179,180		Ceramic 0.01 µF/500V	D00410359D050
C103L,103R		Ceramic chip 330 pF/50V	D010331167200	C181,182		Ceramic chip 0.001 µF/50V	D011102777200
C104L,104R		Film 0.0027 μF/100V	D02027206C060	∆ C183~185		Ceramic 0.01 µF/500V	D00410359D050
C110L,110R		Ceramic chip 100 pF/50V	D010101167200	C186~189		Ceramic chip 0.01 µF/50V	D011103597200
C111L,111R		Electrolytic 22 μF/16V	D040220083070	C194,195		Ceramic chip 0.01 μF/50V	D011103597200
C112L,112R		Electrolytic 22 μF/16V	D040220083070	∆ C196,197	963 0020 804	Ceramic 0.0047 µF/250V	D008472089000
C113L,113R		Electrolytic 22 μF/16V	D040220083070				
C114L,114R		Electrolytic 1 μF/50V	D040010087050	C301		Ceramic chip 0.01 μF/50V	D011103597200
C116,117		Ceramic chip 0.1 µF/50V	D011104597200	C302		Electrolytic 100 μF/10V	D040101082050
C120		Electrolytic 100 μF/10V	D040101082060	C304		Ceramic chip 100 pF/50V	D010101167200
C121		Ceramic chip 0.01 μF/50V	D011103597200	C307		Electrolytic 100 μF/10V	D040101082050
C122		Electrolytic 100 μF/10V	D040101082060	C310~312		Ceramic chip 0.01 µF/50V	D011103597200
C123		Ceramic chip 0.01 μF/50V	D011103597200	C315,316		Ceramic chip 0.01 µF/50V	D011103597200
C124		Ceramic chip 0.1 μF/50V	D011104597200				
C125		Electrolytic 10 μF/50V	D040100087050				
C126	In the August	Ceramic chip 0.1 μF/50V	D011104597200				

Ref. No.	Part No.	Part Name	Remarks	Q'ty
	RTS GROU			
CN101	960 0134 005	4P connector base	L101530140410	1
CN102	960 0134 102	24P FPC connector base	L130358022410	1
CN103	960 0118 801	8P connector base	L102526700800	1
CN104	960 0134 209	19P FPC connector base	L130528061910	1
CN105	960 0123 304	2P connector base	L104353280200	1
			Europe & U.K.	
			Models	
CN105	960 0142 408	3P connector base	L108353280310	1
			Asia Model	
CN106	960 0118 908	2P connector base	L108039602010	1
A F404	960 0142 709	F 050V 14	G650102251160	1
ΔF101	900 0142 709	FUSE ZOUV IA	Asia Model only	' '
			ASIA WOUGHURRY	
FL301	960 0134 607	FLD (16-ST-13GK)	K530161300110	1
J313,314		Carbon chip 0 ohm 1/8W	C200000061300	2
J313,314 J316		Carbon chip 0 ohm 1/8W	C200000061300	1
J325		Carbon chip 0 ohm 1/8W	C200000061300	1
0020		Carbon chip o onin 17044	020000001000	
JACK101	960 0133 802	4P pin jack	G602040131010	1
JACK102,103	963 0025 304	Optical connector (GP1F32R)	E100132000020	2
JACK104	269 0098 006	Optical connector (GP1F32T)	E100132000010	1
JACK105	960 0004 407	Mini jack	G401031102010	1
JP104	960 0134 704	19P FPC connector base	L130528071910	1 .
L101	960 0133 705	Coil 1MH	D320111600010	1
RM301	960 0050 105	Remocon sensor	E940460200010	1
∆SW101	963 0027 700	Slide switch	G060040550010	1
			Asia Model only	
SW301	960 0011 801	Slide switch	G060313012010	1
SW302~312	960 0069 206	Tact switch	G180215050010	11
SW314	960 0134 500	Rotary switch	G120122424010	1
X101	399 0107 900	Ceramic 4.19 MHz	E830419000060	1
	960 0127 805	Earth plate	4470200016010	1
	960 9006 600	GND terminal	3790040876010	3
	960 0005 804	Fuse holder	G645000050010), 1
			for F101	
			Asia Model only	
		Carbon chip 0 ohm 1/8W	C200000061300	32
	960 0050 309	FL supporter	4070020076010	1
	No. 1			
- B-1	1		1	1

PARTS LIST OF EXPLODED VIEW

					D	014
Re	f. N		Part No.	Part Name	Remarks	Q'ty
	Г	-13	960 0138 108	Main P.W.B. unit ass'y	7025HM9802010	1
					Europe & U.K. Models	
	-	-13	960 0132 612	Main P.W.B. unit ass'y	7025HM9802040	1
					Asia Model	
	L	- 7	960 0134 306	Front P.W.B. unit		
		1	960 0115 707	DENON badge	5630210008000	1
		2	960 0131 008	Front panel	3067210048110	1
		3	960 0115 309	Display window	5077210043010	1
		4	960 0132 007	Control knob	5087210031010	1
		5	960 0131 105	Front frame	3217210021110	1
		8	960 0003 505	Foot cushion	4050020075010	4
		9	and the second	Foot	4007000061010	2
		10	960 0131 804	Main chassis	3200210086000	1
		11	960 0115 008		4000210001000	2
		12	960 0003 301	P.W.B. support	4070001601010	1
		14		Back chassis	3207210046010	1
		14	960 0131 723	Dack Chassis		'
					Europe & U.K. Models	
		14	960 0131 736	Back chassis	3207210046110	1
					Asia Model	
		15	960 0135 305	Cord stopper	4380040162010	1
Δ		16	960 0032 301	AC cord	L061000410010	-1
		17	960 0131 901	Mecha. bracket	4010210056000	1
		18	960 0134 801	MD mecha.	8030200000010	1
Δ		19	960 0143 504	Power trans.	8200570013010	1
					Europe & U.K. Models	
Λ		19	960 0135 606	Power trans.	8200570013030	1
					Asia Model	
		20	960 0121 306	Selector knob	5087210041010	1
		21	960 0131 406	Door holder	4320020611011	1
		22	960 0131 309	Door spring	3720020316020	1
		23	960 0131 503	MD door	5047020251020	1
			300 0101 300			,
		24	960 0131 202	Door base	3407210001010	1
		24 25			3407210001010 5070210033000	1
			960 0131 202	Remocon window		1
		25 26	960 0131 202 960 0114 708 960 0131 600	Remocon window Function lens	5070210033000	1
	· ★	25 26 27	960 0131 202 960 0114 708 960 0131 600 960 0121 005	Remocon window Function lens Top cover	5070210033000 3710210013000	1 1 1
	*	25 26 27 28	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201	Remocon window Function lens Top cover Caution label	5070210033000 3710210013000 3000210006100 5527067010010	1 1 1 1
		25 26 27 28 29	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703	Remocon window Function lens Top cover Caution label 1P wire	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010	1 1 1 1 1 1 1
	*	25 26 27 28 29 30	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030	1 1 1 1 1 1 1
	*	25 26 27 28 29 30 31	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010	1 1 1 1 1 1 1
	*	25 26 27 28 29 30	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030	1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010	1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010	1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010	1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010	1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 B020030083B10,	1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 B020030083B10, for SW101 Asia Model only	1 1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 B020030083B10, for SW101 Asia Model only B020030083F10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32 EWS A	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208 960 0108 604 960 0108 604 960 9008 006 963 0018 104	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×17 CBTS(B)-Z	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 B020030083B10, for SW101 Asia Model only B020030083F10 B0200300171B10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32 EWS A A	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 101 960 0135 208 960 0135 208 960 0108 604 960 0108 604 960 9008 006 963 0018 104 960 9008 103	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×8 CFTS(CB)-B	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 for SW101 Asia Model only B020030083F10 B0200300171B10 B010920051B10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32 EWS A A	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 800 960 0135 101 960 0135 208 960 0108 604 960 0108 604 960 9008 006 963 0018 104 960 9008 200	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CFTS(B)-B Screw 3×8 CFTS(B)-Z Screw 2×5 CBTS(C)-Z Screw 2×6 CPTS(C) W-Z	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 for SW101 Asia Model only B020030083F10 B020030083F10 B0200300171B10 B010920051B10 B020020061W10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S	* * *	25 26 27 28 29 30 31 32 EWS A A	960 0131 202 960 0114 708 960 0131 600 960 0121 005 960 0132 201 960 0135 703 960 0135 101 960 0135 208 960 0135 208 960 0108 604 960 0108 604 960 9008 006 963 0018 104 960 9008 103	Remocon window Function lens Top cover Caution label 1P wire 4P connector cord 19P FPC 24P FPC Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×8 CBTS(B)-B Screw 3×17 CBTS(B)-Z Screw 2×5 CBTS(C)-Z Screw 2×6 CPTS(C) W-Z Screw 4×8 CBTS(S)-Z	5070210033000 3710210013000 3000210006100 5527067010010 8410101220010 L000181040030 L301161190010 L301171240010 B020030083B10 for SW101 Asia Model only B020030083F10 B0200300171B10 B010920051B10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1





PARTS LIST OF MD MECHANISM UNIT (DYMC2Z204A)

PARIS	LIST C	OF MID MECH	AMSW U	111	(D TIVICA	222042	'/		
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	9DD 018S 014	Spindle motor ass'y block	D018S014	1	SCREWS				
	l	Sled motor ass'y	D018S012	1	6	9DF G164 15	Screw 1.7×2	FG164-15	3
3		Loading motor ass'y	D018S013	1	21	1	Screw 1.7×3	UG16C-15	1
4	9DD 022S 011	-	D022S011	1 	22	1	Screw 1.7×6	UG23V-12	5
5	9DD D116 22	,	DD116-22	1 	23	1	Screw 1.7×3	UG23V-11	4
7	9DD N114 12		DN114-12		24	i .	Screw 1.7×4	UG16C-12	2
8	9DD N113 12	,	DN113-12		32	9DK G194 34		KG194-34	5
1	1	•	DN112-12	; 	I	1		UG23U-12	3
9	9DD N112 12	•		¦ 	56	9DU G230 12	Screw 2×5-W	03230-12	"
10	i	Pick up shaft	DL111-11		ł				
11	1	Spindle stabilizer	DK112-13						
12	1	Rear guide block	DD111-18						
13	1	Front guide block	DD112-17		ļ				
14	9DD D115 13	i	DD115-13	1					
15	1	Pick up unit	DV111-11	1	1				
16	9DD N116 22	1	DN116-22	1					
17	9DD D114 15	Sled base	DD114-15	1		ŀ			
18	9DD K111 11	Rack slide spring	DK111-11	1					
19	9DD C112 12	Rack slider	DC112-12	1					
20	9DD K118 13	Switch lever spring	DK118-13	1					
25	9DD U111 11	O/W Head	DU111-11	1					
26	9DD C115 16	Loading mode rack	DC115-16	1					
27		Side bracket (L)	DC113-15	1 1					
28	9DD C116 12	1 ' '	DC116-12	1					
29	9DD C117 14		DC117-14	1				1	
30	9DD K114 11	ł.	DK114-11	1					
31	1	Side bracket (R)	DC114-17	1					
33	9DD C118 18	` '	DC118-18	1					
34	9DD C120 52	1	DC120-52	1					
35	D9D C119 15		DC119-15	1					
ı	9DD C124 22	1	DC124-22	1					
36	1	1 '' '	DC122-14						
37	9DD C122 14	1 .							
38	9DD K113 12	· · ·	DK113-12	1					
39	9DD D118 24	1 -	DD118-24	1					
40	9DD K117 30	, -	DK117-30	1					
41	9DD K116 21	, ,	DK116-21	1					
42	9DD K119 11	1	DK119-11	1					
43	9DD C123 13	1	DC123-13	1					
44	9DD K115 12	1	DK115-12	1					
45	9DD 0160 14		D016-014	1					
46	9DD D131 11		DD131-11	1					
47	_	Filament tape	EF14U-00, 20mm	1	11				
48	9DD P113 11	Pick up FPC	DP113-11	1					
49	9DD L113 12	Switch knob (L)	DL113-12	1					
50	9DD L112 12	Switch knob (S)	DL112-12	1]]				
51	-	Wire (BLK)	WG57M-10	2	11				
52	9DF J111 18	Washer poly ¢2.1×0.25	FJ111-18	1	11				
54	9DD R111 11	Insulator	DR111-11	4					
57	I .	Stopper spring	DK128-12	1	11				
58	1	Holder stopper	DC130-12	1		1			
60	1	Loading ass'y	D022S013	1	11				
1									
1					11	1			
L		1	1	1					

PARTS LIST OF MD MECHANISM P.W.B. UNIT ASS'Y

(DYMC2Z204A)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	DUCTORS G			R36		Carbon chip 1 kohm 1/16W	102J1/16
		IC CXA2523AR		R37		Carbon chip 100 ohm 1/16W	101J1/16
U1		IC CXD2652AR		R40		Carbon chip 150 ohm 1/16W	151J1/16
U21		IC TC7S08FU		R41		Carbon chip 0 ohm 1/16W	000J1/16
U22	9R5 0000 191			R42,43		Carbon chip 100 kohm 1/16W	104J1/16
U25	9R5 0000 192	IC MSM51V4400		R44		Carbon chip 100 ohm 1/16W	101J1/16
U52	9R5 0000 173	IC BH6511FS		R46		Carbon chip 330 ohm 1/16W	331J1/16
U81	9R5 0000 193	IC MC74ACT240		R47		Carbon chip 100 ohm 1/16W	101J1/16
		10 7055555		R48		Carbon chip 680 ohm 1/16W	681J1/16
U100	9R5 0000 194	IC TC55257DFTL-70V		R50		Carbon chip 0 ohm 1/16W	000J1/16
U101	9R5 0000 176	IC L88MS33T		R58,59		Carbon chip 100 kohm 1/16W	104J1/16
U102		IC 24LC01B		, i		'	222J1/16
U103		IC H8/3048		R61~63		Carbon chip 2.2 kohm 1/16W	681J1/16
U104	S87 5982 387	IC LB1638M		R64		Carbon chip 680 ohm 1/16W	
U105	S87 5905 860	IC TC7SU04FU		R65		Carbon chip 100 kohm 1/16W	104J1/16
				R66		Carbon chip 2.2 ohm 1/4W	2R2J1/4(3225)
Q1	9R5 0000 195	Transistor DTA114YUA		R67		Carbon chip 4.7 kohm 1/16W	472J1/16
Q2	9R5 0000 196	Transistor 2SA1576A		R69		Carbon chip 1 ohm 1/10W	1R0J1/10(2125)
Q3,4	9R5 0000 198	Transistor DTC114YUA		R72		Carbon chip 0 ohm 1/16W	000J1/16
Q10	9R5 0000 159	Transistor UMW1N		R75		Carbon chip 3.3 kohm 1/16W	332J1/16
Q62	9R5 0000 197	Transistor 2SB798		R77		Carbon chip 3.3 kohm 1/16W	332J1/16
Q63	9R5 0000 195	Transistor DTA114YUA		R78		Carbon chip 0 ohm 1/16W	000J1/16
Q80	9R5 0000 198	Transistor DTC114YUA		R79		Carbon chip 47 kohm 1/16W	473J1/16
Q81	S87 2901 875	Transistor 2SJ278MY		R80,81		Carbon chip 10 kohm 1/16W	103J1/16
Q82	S87 2901 765	Transistor 2SK1764KY		R82,83		Carbon chip 47 kohm 1/16W	473J1/16
				R84,85		Carbon chip 10 kohm 1/16W	103J1/16
D1	S87 1998 862	Diode 1SS355		R86		Carbon chip 0 ohm 1/16W	000J1/16
D81	9R5 0000 199	Diode EC10QS06		R88-90		Carbon chip 10 kohm 1/16W	103J1/16
D83	9R5 0000 199	Diode EC10QS06		R95,96		Carbon chip 0 ohm 1/16W	000J1/16
				R99		Carbon chip 390 ohm 1/16W	391J1/16
D100,101	S87 1998 862	Diode 1SS355					
				R100		Carbon chip 47 kohm 1/16W	473J1/16
DE010=0	20.000112	l		R101~104		Carbon chip 47 kohm 1/16W	473J1/16
	RS GROUP	1		R105		Carbon chip 100 kohm 1/16W	104J1/16
R1		Carbon chip 0 ohm 1/16W	000J1/16	R106		Carbon chip 1 kohm 1/16W	102J1/16
R3		Carbon chip 1 kohm 1/16W	102J1/16	R107		Carbon chip 10 kohm 1/16W	103J1/16
R4		Carbon chip 10 kohm 1/16W	103J1/16	R109,110		Carbon chip 10 kohm 1/16W	103J1/16
R5		Carbon chip 4.7 kohm 1/16W	472J1/16	R120		Carbon chip 47 kohm 1/16W	473J1/16
R6		Carbon chip 3.3 Mohm 1/16W	335J1/16	R121		Carbon chip 47 kohm 1/16W	473J1/16
R7		Carbon chip 470 kohm 1/16W	474J1/16	R122		Carbon chip 1 kohm 1/16W	102J1/16
R9		Carbon chip 0 ohm 1/16W	000J1/16	R123~126	i	Carbon chip 47 kohm 1/16W	473J1/16
R10		Carbon chip 10 kohm 1/16W	103J1/16	R127~129		Carbon chip 47 kohm 1/16W	473J1/16
R11		Carbon chip 0 ohm 1/16W	000J1/16				
R12		Carbon chip 47 kohm 1/16W	473J1/16	R201		Carbon chip 0 ohm 1/16W	000J1/16
R13		Carbon chip 1 kohm 1/16W	102J1/16	R205		Carbon chip 0 ohm 1/16W	000J1/16
R15		Carbon chip 1 kohm 1/16W	102J1/16	R214		Carbon chip 0 ohm 1/16W	000J1/16
R17		Carbon chip 470 kohm 1/16W	474J1/16	11			
R20		Carbon chip 100 ohm 1/16W	101J1/16	R502		Carbon chip 0 ohm 1/16W	000J1/16
R21		Carbon chip 100 kohm 1/16W	104J1/16	R504		Carbon chip 0 ohm 1/16W	000J1/16
R23~25		Carbon chip 100 ohm 1/16W	101J1/16				
R31,32		Carbon chip 10 kohm 1/16W	103J1/16	R776		Carbon chip 0 ohm 1/16W	000J1/16
R33		Carbon chip 3.3 kohm 1/16W	332J1/16	H			
R34		Carbon chip 1 kohm 1/16W	102J1/16]			
R35		Carbon chip 3.3 kohm 1/16W	332J1/16				1

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	3
CAPACIT	ORS GROUP)		C111		Ceramic chip 0.1 μF/25V	104Z25F	
C1		Tantalum 10 μF/10V	TAJA106M010	C112		Electrolytic 100 μF/6.3V	UWX0J101MCF	₹1
C2		Ceramic chip 0.1 μF/25V	104Z25F	C113		Ceramic chip 1 µF/10V	105Z10F	
C3,4		Tantalum 10 μF/10V	TAJA106M010	C114		Electrolytic 100 μF/6.3V	UWX0J101MCF	₹1
C5		Ceramic chip 0.01 μF/50V	103K50B	C115,116		Ceramic chip 1 µF/10V	105Z10F	
C6		Ceramic chip 1000 pF/50V	102J50B	C117,118		Ceramic chip 0.1 μF/25V	104Z25F	
C7,8		Ceramic chip 0.1 µF/25V	104Z25F	C119		Ceramic chip 1 µF/10V	105Z10F	•
C7,8 C9		Ceramic chip 0.022 µF/25V	223K25B	C121		Ceramic chip 1 μF/10V	105Z10F	
C9 C11		Ceramic chip 0.068 µF/16V	683K16B					
C11		Ceramic chip 4700 pF/50V	472J50B	C200		Electrolytic 22 µF/6.3V	UWX0J220MCF	₹1
		Ceramic chip 1 µF/16V	105K16B(2125)	C201~203		Ceramic chip 0.1 µF/25V	104Z25F	
C13		1 ' '	224K10B			, ,		
C15		Ceramic chip 0.22 µF/10V	l I					
C16		Ceramic chip 0.022 μF/25V	223K25B	OTHER P	ARTS GROU	P		Q'ty
C17		Ceramic chip 0.1µF/16V	104K16B	CN1	9R5 0000 200	22FLZ-SM1 connector	22FLZ-SM1	1
C19		Tantalum 10 μF/10V	TAJA106M010	CN2	9R5 0000 188	24FMN-SM connector	24FMN-SM	1
C22		Ceramic chip 0.01 μF/50V	103K50B	CN3	9R5 0000 189	S 4B-ZR-SM connector	S 4B-ZR-SM	1
C23,24		Ceramic chip 0.1 μF/25V	104Z25F					
C27		Ceramic chip 0.1 μF/25V	104Z25F	L1-3	9R5 00000203	Ferrite bead	N2012Z102T	3
C28		Ceramic chip 0.01 μF/50V	103K50B	L6,7	9R5 00000203	Ferrite bead	N2012Z102T	2
C29		Ceramic chip 0.47 μF/16V	474K16B(2125)	L22	9R5 00000203	Ferrite bead	N2012Z102T	1
C30		Ceramic chip 100 pF/50V	101J50CH	L51,52	9R5 0000 146	Inductor	LQH1C100K	2
C31		Ceramic chip 0.015 μF/25V	153K25B	L53,54	9R5 0000 147	Inductor	LQH4N101K	2
C32		Ceramic chip 0.47 μF/16V	474K16B(2125)	L61,62	9R5 00000203	Ferrite bead	N2012Z102T	2
C33		Ceramic chip 4700 pF/50V	472J50B	L100	9R5 00000203	1	N2012Z102T	1
C34		Ceramic chip 0.1 µF/25V	104Z25F					
C35		Ceramic chip 0.1 μF/25V	104Z25F	SW1	9R5 0000 183	Switch	SPVF230100	1
C36		Electrolytic 100 μF/6.3V	UWX0J101MCR1	SW2	9R5 0000 184	Switch	SPPB620100	1
C41		Ceramic chip 0.1 μF/25V	104Z25F	SW3,4	9R5 0000 155	Switch	SPVF11006A	2
C51		Electrolytic 100 μF/6.3V	UWX0J101MCR1	SW5,6	9R5 0000 185	Switch	SPPB530601	2
C52	,	Ceramic chip 0.1 μF/25V	104Z25F	0110,0	0110 0000 100	O Milon		
C53		Ceramic chip 0.01 µF/50V	103K50B	X1	9R5 0000 207	Crystal (22.5792MHz)	SMD-49 22.5792MHz	1
C56,57		Ceramic chip 0.1 μF/25V	104Z25F	X2	9R5 0000 187	Ceramic resonator (8.00MHz)	PBRC8.00BR-A	1
C58		Ceramic chip 6800 pF/50V	682J50B	^2	3113 0000 107	Geraniic resonator (6.00mi 12)		` `
C60,61		Electrolytic 10 μF/10V	UWP1A100MCR1					
C62		Tantalum 10 μF/10V	TCFGA1A106M					
C63,64		Ceramic chip 0.01 µF/50V	103K50B					
C67,68		Ceramic chip 0.1 μF/25V	104Z25F					
C69		Tantalum 10 μF/10V	TAJA106M010	11				1
C80		Ceramic chip 0.1 μF/25V	104Z25F					1
C81		Electrolytic 100 μF/6.3V	UWX0J101MCR1] [
C82,83		Ceramic chip 0.1 µF/25V	104Z25F					
C84		Electrolytic 22 μF/8V	ECGC0KB220R	! 				
C85	:	Ceramic chip 1000 pF/500V	102K500B(3216)					
C88		Ceramic chip 0.01 µF/50V	103K50B					
C89		Ceramic chip 0.033 μF/16V	333K16B					
C90		Ceramic chip 1 μF/10V	105Z10F					
C97,98		Ceramic chip 24 pF/50V	240J50CH					
O31,30		Cotatilo onip 24 pi /ouv	1	[]				
C101~105		Ceramic chip 0.1 fµF/25V	104Z25F	11				
		Ceramic chip 0.1 pc/25V	104Z25F					
C106,107		· · ·	UWX0J101MCR1	11				
C108		Electrolytic 100 μF/6.3V	Į.	[]				
C109		Tantalum 10 μF/10V	TAJA106M010	H	1			1

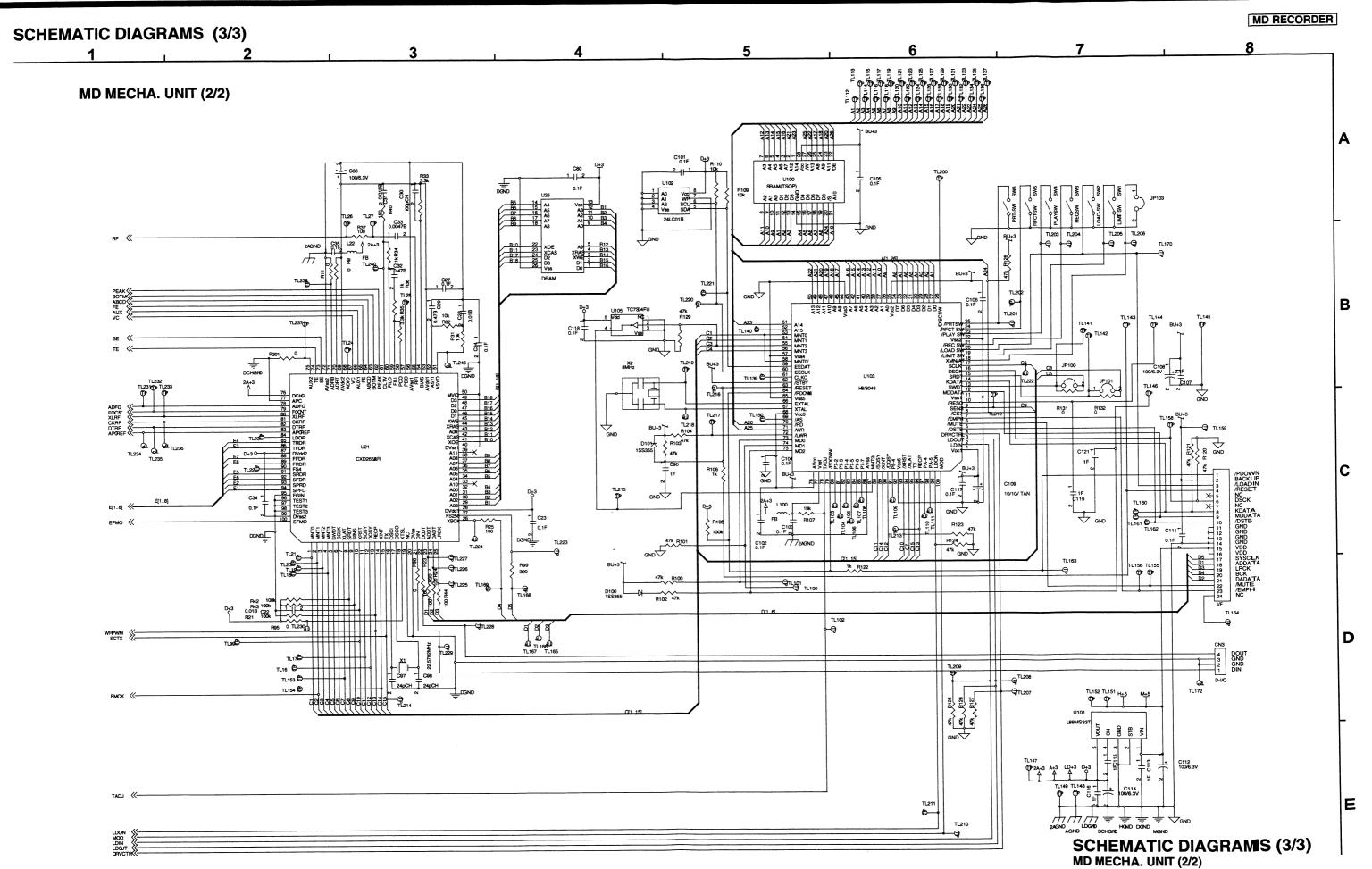
MD RECORDER **SCHEMATIC DIAGRAMS (1/3)** MAIN PWB 12 .002784 . ooz/# 明婚 NOTICE ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P-MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT DESTINALS DESTINALS NOWALDS CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. JIIIII WARNING:
Parts marked with this symbol A have critical characteristics
Use ONLY replacement parts recommended by the manufacture. T 0.01 В CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected. CAUTION: FRONT PWB E1, E2, EK J-TYPE TYPE R178 100K R179 C140 100/10 *155355USM: 0153, 0154, 0155, 0158, 0159, 0182, 0183, 0186 POWER CN102 9170 9170 R160 \$.074 ¥ 1.0K \$ 47/16 + B Line --- - B Line

Signal Line

SCHEMATIC DIAGRAM S (1/3) MAIN / FRONT P.W.B. UNIT

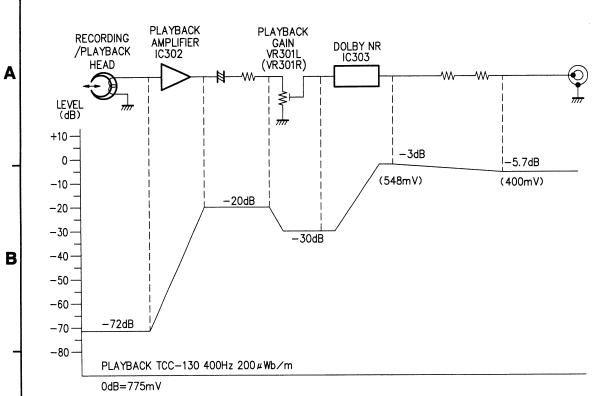


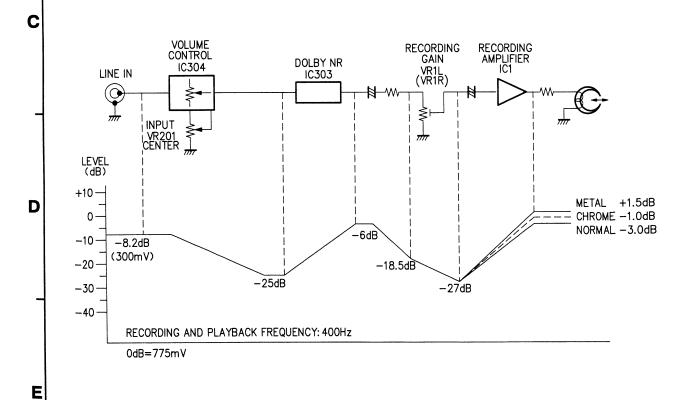
D-E100

MD RECORDER

MEMO:







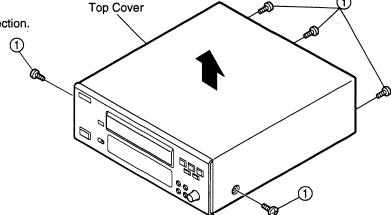
DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

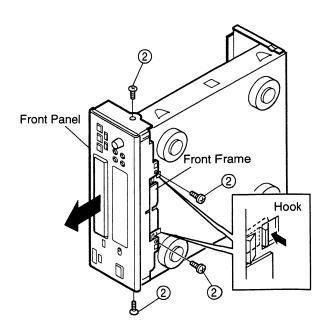
1. Top Cover & Front Panel

(1) Remove 5 screws 1 fixing the Top Cover.

(2) Detach the Top Cover as shown in the arrow direction.



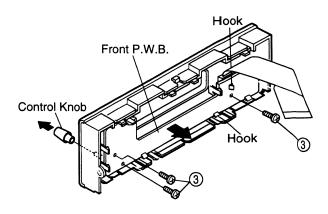
- (3) Remove 4 screws 2 on the bottom and both sides.
- (4) Disconnect 28P FPC and 3P Connector Cord from their connector bases.
- (5) Pull the Front Panel in the arrow direction with releasing Hooks on the Front Frame from the Chassis, and it comes off with the Front Frame.



2. P.W.B. on Panel

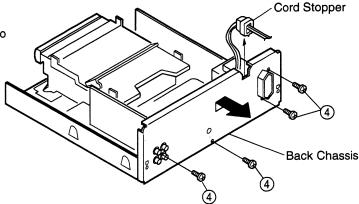
FRONT P.W.B.

- (1) Pull out the Control Knob to the arrow direction, and remove 3 screws (3).
- (2) Detach the Front P.W.B. with releasing 5 Hooks.



3. Back Chassis

- (1) Take off the Cord Stopper from the Back Chassis.
- (2) Remove 4 screws (4), and detach the Back Chassis to the arrow direction.



MICOM P.W.B.

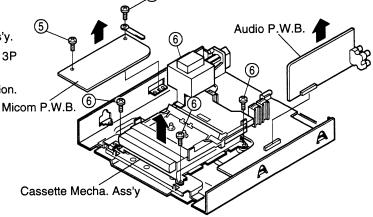
(3) Remove 2 screws (5), and detach the Micom P.W.B. to the arrow direction.

AUDIO P.W.B.

(4) Detach the Audio P.W.B. by disconnecting from its connector as shown in the arrow direction.

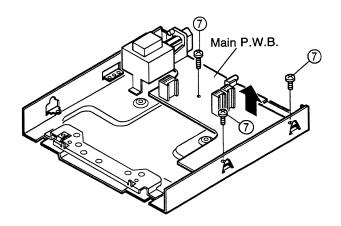
4. Cassette Mecha. Ass'y

- (1) Remove 4 screws (6) fixing the Cassette Mecha. Ass'y.
- (2) Disconnect 2P Shield Connector Cord and 5P, 13P Connector Cord from their connector bases.
- (3) Detach the Cassette Mecha. Ass'y to the arrow direction.



MAIN P.W.B.

(4) Remove 3 screws (7), and detach the Main P.W.B. to the arrow direction.



ADJUSTMENTS

Adjusting and Checking the Mechanism Section

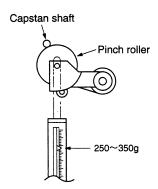
1. Replacement of the pinch roller

Before replacing the pinch roller, clean the tape contact surface of the pinch roller and the tape contact surface of the capstan shaft. After replacement, run a C-90 tape without a pad and check for the presence of tape curl at the tape guide portion of the head.

2. Checking the pinch roller pressure

Set to the playback condition and hook a bar-type spring scale to the bracket above the center line of the pinch roller. Pull the pinch roller away from the capstan shaft, then allow the pinch roller to come into contact with the capstan shaft and check that the reading of the bar-type spring scale is between 250 g and 350 g when the pinch roller starts to rotate.

Replace the pinch roller when the value falls outside of the specified range.



3. Replacement of the recording/playback head assembly

Perform this procedure after removing the front panel.

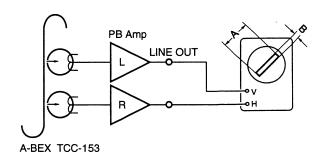
- 3-1 Removal of the head assembly
- (1) Remove the 2 head base fastening screws.
- (2) Remove the head base from the reed holder and the wire connector.
- 3-2 Mounting the recording/playback head assembly Perform by following the steps of Section 3-1 Removal of the head assembly in reverse.

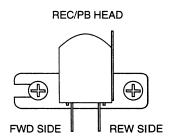
4. Adjustment of the recording/playback head

Azimuth adjustment

Load side A of the A-BEX TCC-153 test tape facing forward, and adjust.

- (1) Play in the FWD direction and turn the azimuth adjustment nut for the FWD side so that the Lissajous¢s figure becomes maximum at (A) and minimum at (B).
- (2) Play in the REW direction and turn the azimuth adjustment nut for the REW side as adjusting the FWD side method.
- (3) Adjust (1) and (2) again.
- (4) Apply screw lock to the adjustment locations.





5. Checking the winding torque

Load a cassette type torque meter (Sony TW2111A at the FWD side) and check that the reading of the torque meter during playback is 30 to 70 g-cm at the center value. When outside of the specified value range, check the voltage of the reel motor (approx. 4 V). When the voltage value is low, the torque is weak, and when when high, the torque is strong.

6. Checking the back tension torque at the time of recording and playback

Load a cassette type torque meter (Sony TW2111A at the FWD side) and check that the reading of the torque meter during playback is 1.5 to 6 g-cm and that there is no unevenness.

7. Checking the FF and REW torque

Load a cassette type torque meter (Sony TW2231) and check that the value indicated by the torque meter for winding and rewinding is between 70 and 150 g-cm.

8. Checking the FF and REW time

Load a DENON HD-X/60 cassette tape, and check that the time for FF and REW is below 120 seconds. When outside of the specified range, check Steps 5 and 6.

9. Checking the erroneous erasure prevention, and the metal and chrome switch operations

Check that detection lever is operating the switch properly depending upon the presence or absence of a hole.

Adjusting and Checking the Electrical Section

Measuring instruments needed for the adjustments

- (1) Low frequency oscillator
- (2) Variable resistance attenuator
- (3) Electronic voltmeter
- (4) Oscilloscope
- (5) Frequency counter
- (6) Adjustment screwdriver
- (7) 4-sided adjustment rod for trap coil adjustments
- (8) Test tapes

(Sony TY-224)

(A-BEX TCC-153, TCC-130, TCC-262B/162B)

(DENON HD-X/60)

(9) Mirror cassette for the transport (A-BEX TCC-902)

Adjustment precaution

- (1) Before adjustments, use gauze or a swab moistened with alcohol to wipe the surface of the heads, the capstan shaft, and the pinch roller.
- (2) Demagnetize the record/playback head and the erase head with a head eraser.
- (3) Completely demagnetize the driver to be used for the adjustments.
- (4) Unless otherwise specified, set the various operation controls as indicated below.

REC level: Center

Dolby NR switch: Off

1. Tape transport check

Load the mirror cassette for the transport, and illuminate the area around the fixed guide of the record/playback head with a lamp and observe.

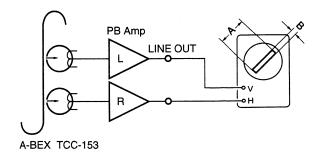
Check that the tape edge is not hitting the tape guide portion.

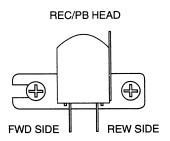
Note that the tape transport is the greatest factor affecting the performance of the cassette deck. Never move the inspection locations without good reason.

For information about replacement and adjustment of the record/playback head, see the section 2Adjustment and checking of the mechanism2.

2. Azimuth adjustment

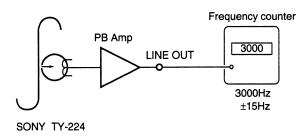
- 2-1 After making the tape transport check, load the test tape (A-BEX TCC-153).
- 2-2 Play back the test tape and turn the azimuth adjustment nut so that the Lissajous¢s figure becomes maximum at (A) and minimum at (B).





3. Tape speed check and adjustment

- 3-1 Connect the frequency counter to the LINE OUT pin and load the test tape (Sony TY-224).
- 3-2 Playback a test tape. At about halfway through the tape, where the tape transport is stable, confirm that the frequency counter will have a reading within the range of 3,000 Hz ±15 Hz.



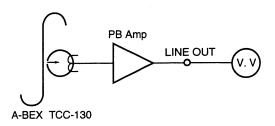
4. Adjustment of the playback system

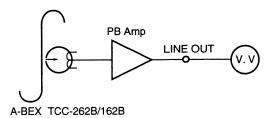
4-1 Playback level

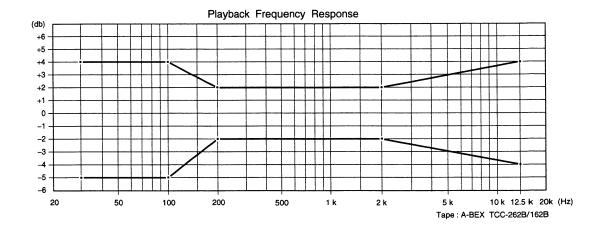
Play back the test tape for the Dolby standard level (A-BEX TCC-130), and adjust VR301L (Left channel) and VR301R (right channel) so that the level of the LINE OUT pin becomes –5.7 dBm (400 mV). (Load resistance of 47 kohm)

- 4-2 Checking the playback frequency respones Play back the test tape (A-BEX TCC-262B/162B), and check that the frequency response satisfies the standard.
- NOTE After making the azimuth adjustment with the 8 kHz at the start of the A-BEX TCC-262B test tape, perform check of the frequency respones.

 Also, after the check make an azimuth adjustment again with A-BEX TCC-153, then apply screw lock.

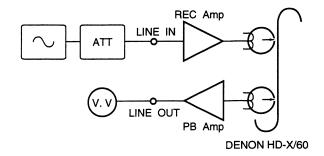


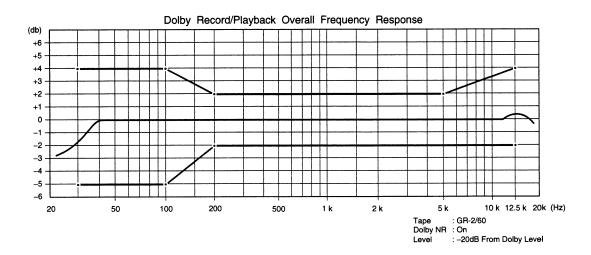




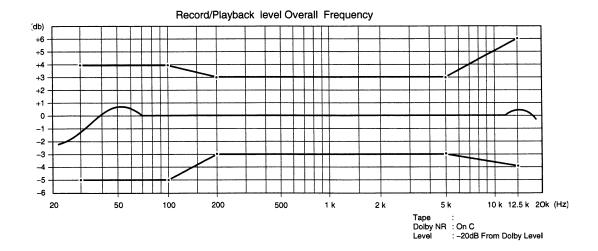
5. Adjustment of the recording system

- 5-1 Adjustment of the recording and playback overall frequency respons
- (1) Load the DENON HD-X/60 test tape, record a signal of-20 dBm (30mV) 1 kHz input level, and play back.
- (2) Set the input signal to 10 kHz, record, and play back. Adjust VR2L (left channel) and VR2R (right channel) so that the response specifications of the diagram below are satisfied with respect to the 1 kHz output level.



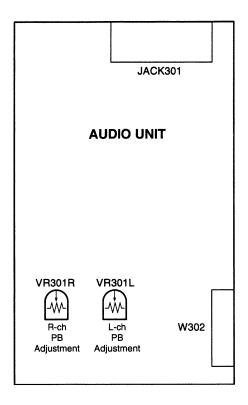


- 5-2 Adjustment of the recording/playback level
- (1) Load the DENON HD-X/60 test tape, record a signal of 1 kHz (–20 dBm), and play back.
- (2) Adjust VR1L (left channel) and VR1R (right channel) so that the output of the LINE OUT pin becomes the same as the output at the time of the recording monitor.
- 5-3 Checking the Dolby C recording and playback overall frequency response.
- (1) Set the Dolby NR switch to the "C" positions.
- (2) Use the DENON HD-X/60 test tape to record and play back according to the outline of Section 5-1, then check that the response specifications have been satisfied.

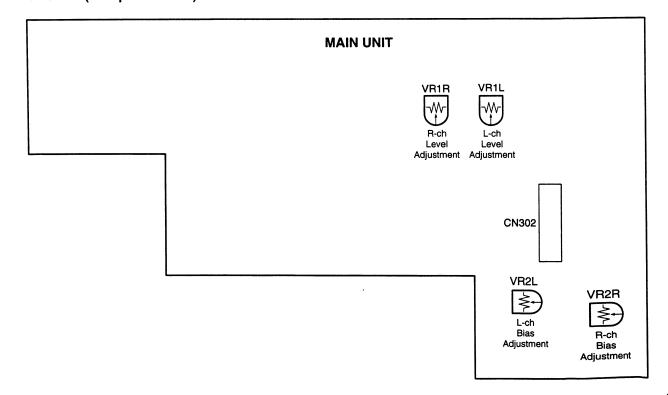


Adjustment VR Locations

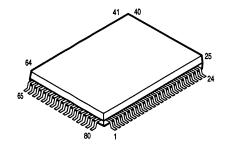
Audio P.W.B. (Component Side)

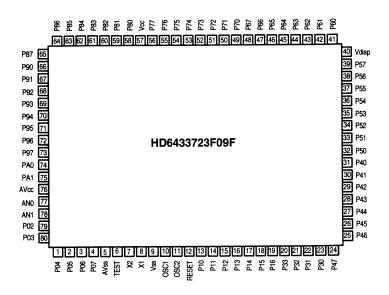


Main P.W.B. (Component Side)



SEMICONDUCTORS HD6433723F09F (IC102)



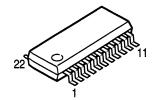


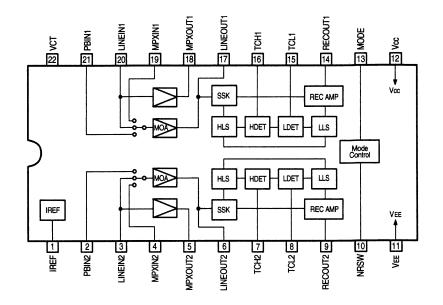
● HD6433723F09F Terminal Function

	704007201		·			
Pin No.	Name	1/0	PULL U/D	ACT	Symbol	Function
1	P04	_				Not Used
2	P05	-				Not Used
3	P06	-		_		Not Used
4	P07	1				Not Used
5	AVss	1			AVss	A/D GND
6	TEST	T			TEST	GND
7	X2	0			X2	Not Used
8	X1	1			X1	+5V
9	Vss	ı	_		Vss	GND
10	OSC1	ı		_	OSC1	System OSC input terminal (4.19 MHz)
11	OSC2	0		_	OSC2	System OSC output terminal (4.19 MHz)
12	RESET	1		L	RESET	System reset input signal, L: Reset
13	P10			_		Not Used
14	P11	I		Н	OPEN SW	When switch open: H
15	P12	1		Н	CLOSE SW	When switch close: H
16	P13	0		Н	TARY M/C IN	When tray loading-in: H
17	P14	0	_	Н	TRAY M/C OUT	When tray loading-out: H
18	P15					Not Used
19	P16		_	_		Not Used
20	P33	1	P/D GND	Н	KR4	Key read out signal 4
21	P32	ı	P/D GND	Н	KR3	Key read out signal 3
22	P31	ı	P/D GND	Н	KR2	Key read out signal 2
23	P30	I	P/D GND	Н	KR1	Key read out signal 1
24	P47	0	P/D GND	Н	KS4	Key scan signal 4
25	P46	0	P/D GND	Н	KS3	Key scan signal 3
26	P45	0	P/D GND	Н	KS2	Key scan signal 2
27	P44	0	P/D GND	Н	KS1	Key scan signal 1
28	P43	0		Н		Not Used
29	P42	0	1 —	Н		Not Used
30	P41	0		Н		Not Used
31	P40	0	P/D Vdisp	Н	S17	FLT display segment terminal 17
32	P50	0	P/D Vdisp		S16	FLT display segment terminal 16
33	P51	0	P/D Vdisp		S15	FLT display segment terminal 15

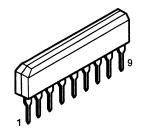
Pin No.	Name	I/O	PULL U/D	ACT	Symbol	Function
34	P52	0	P/D Vdisp	Н	S14	FLT display segment terminal 14
35	P53	0	P/D Vdisp	Н	S13	FLT display segment terminal 13
36	P54	0	P/D Vdisp	Н	S12	FLT display segment terminal 12
37	P55	0	P/D Vdisp	Н	S11	FLT display segment terminal 11
38	P56	0	P/D Vdisp	Н	S10	FLT display segment terminal 10
39	P57	0	P/D Vdisp	Н	S9	FLT display segment terminal 9
40	Vdisp	ı		_	Vdisp	Power for FLT
41	P60	0	P/D Vdisp	Н	S8	FLT display segment terminal 8
42	P61	0	P/D Vdisp	Н	S7	FLT display segment terminal 7
43	P62	0	P/D Vdisp	Н	S6	FLT display segment terminal 6
44	P63	0	P/D Vdisp	Н	S5	FLT display segment terminal 5
45	P64	0	P/D Vdisp	Н	S4	FLT display segment terminal 4
46	P65	0	P/D Vdisp	Н	S3	FLT display segment terminal 3
47	P66	0	P/D Vdisp	Н	S2	FLT display segment terminal 2
48	P67	0	P/D Vdisp	Н	S1	FLT display segment terminal 1
49	P70	0	P/D Vdisp	Н	G5	FLT display grid terminal 5
50	P71	0	P/D Vdisp	Н	G4	FLT display grid terminal 4
51	P72	0	P/D Vdisp	Н	G3	FLT display grid terminal 3
52	P73	0	P/D Vdisp	Н	G2	FLT display grid terminal 2
53	P74	0	P/D Vdisp	Н	G1	FLT display grid terminal 1
54	P75					Not Used
55	P76					Not Used
56	P77	0	P/D GND	L	LINE MUTE	L: Line mute on, H: Signal
57	Vcc	ı			Vcc	System power +5V
58	P80	ı	_	L	POWER OFF	Power off detect signal, L: OFF
59	P81	0		H/L	DOLBY B/C	H: Dolby B, L: Dolby C
60	P82	0	_	L/H	DOLBY REC	L: Dolby REC, H: Dolby PB
61	P83	0	_	L/H	DOLBY ON/OFF	L: Dolby ON, H: Dolby OFF
62	P84	ı		L	INH-R	L: REV REC inhibited, H: REV REC
63	P85	ı		Н	MODE SW	H: Head up, L: Head down
64	P86	0		Н	СРМ	H: Capstan motor on
65	P87	ı	_	Н	HALF SW	H: Tape detected, L: Tape non-detect
66	P90	0	_	Н	SOL	H: Solenoid on
67	P91	0	_	L	SCK	Serial comm. Clock signal (62.5 μs)
68	P92	ı		L	SI	Serial data input signal
69	P93	0		L	so	Serial data output signal
70	P94	ı		H/L	HALL OUT	Reel sensor detect input signal
71	P95	ı		L	INH-F	L: FWD REC inhibited, H: FWD REC
72	P96	0		Н	REC-MUTE	H: REC mute, L: REC
73	P97	0		H/L	R/P HEAD SW	H: REC/PAUSE/MUTE, L: Others
74	PA0	0	_	Н	BIAS	L: In recording, H: Others
75	PA1					Not Used
76	AVcc	ı			AVcc	+5V
77	AN0	ı			LEVEL "R"	Rch level input signal
78	AN1	1			LEVEL "L"	Lch level input signal
79	P02	1		_		Not Used
80	P03	1		<u> </u>		Not Used

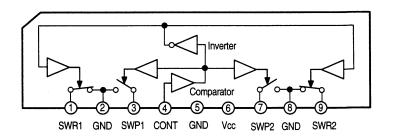
CXA1561M (IC303)



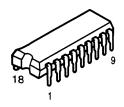


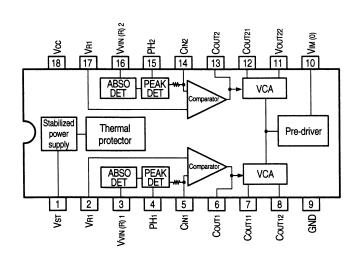
μPC1330HA (IC301)



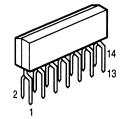


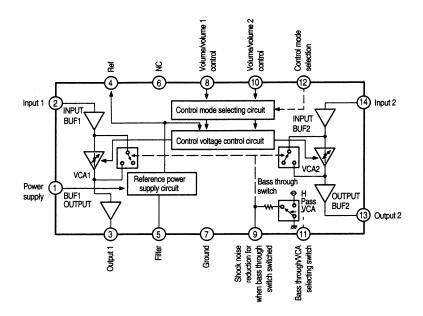
μPC1297CA (IC305)



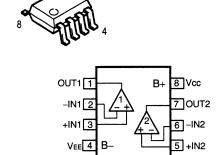


M51132L (IC304)

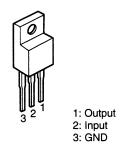




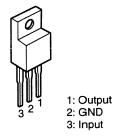
NJM4565MD (IC1,2,302)



NJM7908FA (IC5)

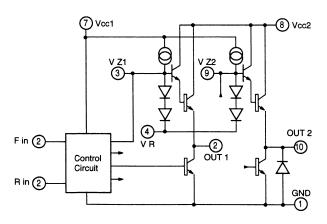


NJM7808FA (IC4) NJM7812 (IC6)



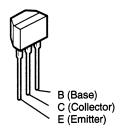
BA6209N (IC101)



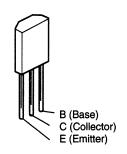


Transistors

2SC1740S



KTA1273 KTC3205



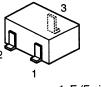
2SA1037K 2SC2412K



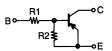
- 1: E (Emitter) 2: B (Base) 3: C (Collector)

DTA144EK DTC114EK DTC124EK DTC144EK

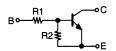
DTC343TK







	R1	R2
DTA144EK	47kohm	47kohm



	R1	R2
DTC114EK	10kohm	10kohm
DTC124EK	22kohm	22kohm
DTC144EK	47kohm	47kohm
DTC343TK	4.7kohm	_

DIODES

1SS133



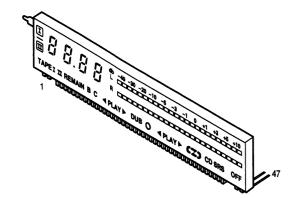
1N4004A



MTZJ5.6B MTZJ6.2B MTZJ9.1B MTZJ20B



● FL DISPLAY BJ-239GK (FLT201)



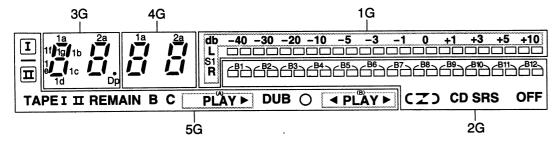
Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connector	F1	F1	NP	NP	1G	2G	3G	4G	5G	NC														

																								47
С	onnector	NC	NC	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2

NOTE 1) F1, F2 · · · · · Filament
2) NP · · · · · · No Pin
3) NC · · · · · No Connection
4) 1G~5G · · · · Grid

Grid Partition



Anode Connection

	5G	4G	3G	2G	1G
P1	TAPE	1a	1a	B1	B1
P2	I	1b	1b	B2	B2
Р3	п	1c	1c	B3	В3
P4	REMAIN	1d	1d	B4	B4
P5	В	1e	1e	B5	B5
P6	С	1f	1f	В6	B6
P7	◄ (A)	1g	1g	B7	B7
P8	PLAY (A)	2a	2a	B8	B8
P9	► (A)	1b	1b	B9	B9
P10	DUB	2c	2c	B10	B10
P11	0	2d	2d	B11	B11
P12	◀ (B)	2e	2e	B12	B12
P13	PLAY (B)	2f	2f	C	S1
P14	▶ (B)	2g	2g	Z	_
P15	I	_	Dp)	-
P16		_		CD SRS	_
P17	П			OFF	_

Α

B

CASSETTE DECK

MAIN 0 CN2 **AUDIO** 0 R29F # 049 [[214] [015] 1C304 - C3121 C306L J333 •≠≱ •C313 R316L C311R MICON 0 0 R125 1 F(123) C310L C310L C309L C309L 13 -**1**2 → C314 CN104
PISS 1
PISS 2
FISS 2
FIS <u>P</u> | € 320 0 C107 O106IC DE CN101 W202 3 1 C106 SW207 ••0 0•• R203 •\$\(\frac{1}{6}\)\$. \$\(\frac{1}{6}\)\$. \$\(\frac{1} 0 0 R209 SW208 SW212 . . . \$W281 ₩0 0• FC 19 -6 8-SW211 **FRONT** 0 1 FLT201

FOIL SIDE

D

D-F100

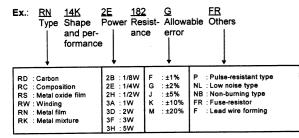
CASSETTE DECK

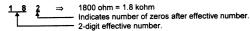
NOTE FOR PARTS LIST

- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

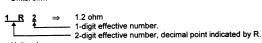
Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

Resistors

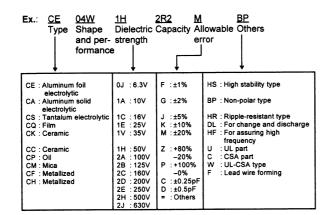




• Units: ohm



Capacitors



* Capacity (electrolyte only)

2 2 2 ⇒ 2200μF Indicates Indicates number of zeros after effective number. 2-digit effective number.

* Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022µF

(More than 2)—Indicates number of zeros after effective number.

2-digit effective number.

• Units: μF.

2-digit effective number.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric

PARTS LIST OF P.W.B. UNIT MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	DUCTORS G		Hemaiks	ZD3~5	960 0095 704	Zener diode MTZJ6.2B	K06006R244520
		T	J121456500040	ZD6	960 0014 905	Zener diode MTZJ20B	K06020R044520
IC1,2	928 0035 809	IC NJM4565MD					
IC3	263 0354 001	IC NIMTONEA	J081129700000	ZD101	276 0664 904	Zener diode MTZJ5.6B	K06005R644520
IC4	263 0502 002	IC NJM7808FA	J126780800030	ZD101 ZD102	LA2 100U 125	Zener diode MTZJ6.2B	K06006R244520
IC5	263 0503 001	IC NJM7908FA	J126790800020				
IC6	263 0516 001	IC NJM7812	J126781200010				
10101	000 0100 000	IC PACOON	J127620900010	RESISTO	RS GROUP	T	r=====================================
IC101	960 0100 806	IC BA6209N		R1L,1R		Carbon chip 10 kohm 1/10W	C200010360200
IC102	960 0122 703	IC HD6433723F09F	J020643372390	R2L,2R		Carbon chip 56 kohm 1/10W	C200056360200
10004	000 0000 004	IC LIBC1220UA	J040133000010	R3L,3R		Carbon chip 5.6 kohm 1/10W	C200056260200
IC301	263 0590 001	IC UPC1330HA		R4L,4R		Carbon chip 560 ohm 1/10W	C200056160200
IC302	928 0035 809	IC NJM4565MD	J121456500040	R5L,5R		Carbon chip 6.2 kohm 1/10W	C200062260200
IC303	960 0124 400	IC CXA1561M	J081156100010	R7L,7R		Carbon chip 22 kohm 1/10W	C200022360200
IC304	960 0014 109	IC M51132L	J123511320000	R8L,8R		Carbon chip 15 kohm 1/10W	C200015360200
001.00	000 0000 000	Transistar DTO444TV	JE000114T0010	R9L,9R		Carbon chip 22 kohm 1/10W	C200022360200
Q2L,2R	269 0088 906	Transistor DTC114TK	J5220114T0210	R10L,10R		Carbon chip 15 kohm 1/10W	C200015360200
Q3L,3R	269 0088 906	Transistor DTC114TK	J5220114T0210	R10L,10R		Electrolytic 0.33 μF/50V	D040R33087070
Q4L,4R	269 0104 903	Transistor DTC343TK	J5220343T0210	R11L,11R		Carbon chip 10 kohm 1/10W	C200010360200
Q5,6	269 0082 902	Transistor DTC114EK	J5220114E0210	R12L,12R		Carbon chip 6.8 kohm 1/10W	C200068260200
Q7	269 0055 900	Transistor DTA144EK	J5200144E0210	R13L,13R		Carbon film 150 kohm 1/5W	C00001546P520
Q8	269 0054 901	Transistor DTC144EK	J5220144E0210	R14L,14R		Carbon chip 22 kohm 1/10W	C200022360200
Q9	269 0055 900	Transistor DTA144EK	J5200144E0210	R15		Carbon chip 1.5 kohm 1/10W	C200015260200
Q10,11	269 0054 901	Transistor DTC144EK	J5220144E0210	R16		Carbon chip 1.2 kohm 1/10W	C200012260200
Q12	269 0055 900	Transistor DTA144EK	J5200144E0210	R17		Carbon chip 3.3 kohm 1/10W	C200033260200
Q13	269 0054 901	Transistor DTC144EK	J5220144E0210	R18		Carbon chip 47 kohm 1/10W	C200047360200
Q14	269 0055 900	Transistor DTA144EK	J5200144E0210	R19		Carbon chip 10 kohm 1/10W	C200010360200
Q15,16	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R20		Carbon chip 100 kohm 1/10W	C200010460200
Q17,18	273 0384 900	Transistor 2SC2412K(S)	J5222412K0210	R21		Carbon chip 22 kohm 1/10W	C200022360200
Q19	271 0238 908	Transistor 2SA1037K(S/R)	J5201037K0210	R22,23		Carbon chip 10 kohm 1/10W	C200010360200
Q20	960 0010 705	Transistor KTC3205Y	J5023205Y0020	R24L,24R		Carbon film 1 kohm 1/5W	C00001026P520
Q22	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R25L,25R		Carbon chip 47 kohm 1/10W	C200047360200
Q23,24	273 0303 907	Transistor 2SC1740SR	J5021740S0010	R26L,26R		Carbon chip 27 kohm 1/10W	C200027360200
Q25	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R27L,27R		Carbon chip 15 kohm 1/10W	C200015360200
Q26~28	269 0054 901	Transistor DTC144EK	J5220144E0210	R28L,28R		Carbon chip 100 ohm 1/10W	C200010160200
			15004070\/0070	R29L,29R		Carbon chip 100 kohm 1/10W	C200010460200
Q101,102	960 0010 501	Transistor KTA1273Y	J5001273Y0050	R30		Carbon chip 47 ohm 1/10W	C200047060200
Q103,104	269 0102 905	Transistor DTC124EK	J5220124E0210	R31,32		Carbon chip 15 kohm 1/10W	C200015360200
Q105	9L2 3256 91R	Transistor 2SC2412K(S)	J5222412K0210	R33,34		Metal film 22 ohm 1/4W	C060022063050
Q106	269 0102 905	Transistor DTC124EK	J5220124E0210	R35		Carbon chip 4.7 kohm 1/10W	C200047260200
Q107	269 0083 901	Transistor DTA144EK	J5200144E0210	R36~39		Carbon chip 10 kohm 1/10W	C200010360200
000/1 001=	000 040 4 040	T late . DT00 (0T/	 	R40,41		Carbon chip 22 kohm 1/10W	C200022360200
Q301L,301R	269 0104 903	Transistor DTC343TK	J5220343T0210	R42		Carbon chip 1 kohm 1/10W	C200010260200
Q302L,302R	269 0104 903	Transistor DTC343TK	J5220343T0210	R43		Carbon chip 100 ohm 1/10W	C200010160200
Q303L,303R	269 0104 903	Transistor DTC343TK	J5220343T0210	R44		Carbon chip 220 ohm 1/10₩	C200022160200
			1/000010533333	R45,46		Carbon chip 10 kohm 1/10W	C200010360200
D3L,3R	276 0401 905	Diode 1SS133	K000013300520	R47		Carbon chip 47 kohm 1/10₩	C200047360200
D4-14	276 0401 905	Diode 1SS133	K000013300520	R48		Carbon chip 100 ohm 1/10₩	C200010160200
D15~22	960 0117 608	Diode 1N4004A	K040400400520	R49		Carbon film 10 kohm 1/5W	C00001036P520
				R50		Carbon chip 4.7 kohm 1/10✓V	C200047260200
D101~107	276 0401 905	Diode 1SS133	K000013300520	R51,52		Carbon chip 10 kohm 1/10W	C200010360200
				R53		Carbon chip 2.2 kohm 1/10VV	C200022260200
ZD1,2	960 0085 604	Zener diode MTZJ9.1B	K06009R144520	R54		Carbon chip 8.2 kohm 1/10VV	C200082260200
<u> </u>				ــــــا ا			

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Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R55		Carbon chip 1 kohm 1/10W	C200010260200	R316L,316R		Carbon chip 7.5 kohm 1/10W	C200075260200
R56		Carbon chip 100 ohm 1/10W	C200010160200	R317L,317R		Carbon chip 24 kohm 1/10W	C200024360200
R58		Carbon chip 100 ohm 1/10W	C200010160200	R318		Carbon chip 47 kohm 1/10W	C200047360200
R59~61		Carbon chip 10 kohm 1/10W	C200010360200	R319,320		Carbon chip 39 kohm 1/10W	C200039360200
				R321L,321R		Carbon chip 75 kohm 1/10W	C200075360200
R101		Metal film 10 ohm 1/4W	C060010063050	R322L,322R		Carbon chip 470 ohm 1/10W	C200047160200
R102,103		Carbon chip 1 kohm 1/10W	C200010260200				
R104		Carbon chip 470 ohm 1/10W	C200047160200	VR1L,1R	960 0119 907	Semi fixed resistor 22 kohm	C544223015140
R105~109		Carbon chip 1 kohm 1/10W	C200010260200	VR2L,2R	960 0122 606	Semi fixed resistor 47 kohm	C544473015130
R112~118		Carbon film 1 kohm 1/5W	C00001026P520				
R122~127		Carbon chip 100 kohm 1/10W	C200010460200	VR101	960 0091 601	Semi fixed resistor 1 kohm	C544102015130
R128,129		Carbon chip 47 kohm 1/10W	C200047360200				
R130,131		Carbon chip 3.3 kohm 1/10W	C200033260200	VR201	960 0124 002	Variable resistor 100 kohm	C452111400420
R132		Carbon chip 100 kohm 1/10W	C200010460200				
R133		Carbon chip 10 kohm 1/10W	C200010360200	VR301L ,301R	960 0091 601	Semi fixed resistor 10 kohm	C544103015130]
R134		Carbon chip 5.6 kohm 1/10W	C200056260200				
R135,136		Carbon chip 100 kohm 1/10W	C200010460200				
R137~140		Carbon chip 47 kohm 1/10W	C200047360200		ORS GROUP	·	T
R141~144		Carbon chip 1 kohm 1/10W	C200010260200	C1L,1R		Electrolytic 10 µF/16V	D040100083050
R145~148		Carbon film 1 kohm 1/5W	C00001026P520	C2L,2R		Film 0.0039 μF/100V	D02039206C060
R149		Carbon chip 1 Mohm 1/10W	C200010560200	C6L,6R		Film 0.01 μF/100V	D02010306C060
R150		Carbon chip 100 kohm 1/10W	C200010460200	C7L,7R		Film 0.0047 μF/100V	D02047206C060
R151~153		Carbon chip 3.9 kohm 1/10W	C200039260200	C8L,8R		Electrolytic 1 μF/50V	D040010087050
R154		Carbon film 10 kohm 1/5W	C00001036P520	C9L,9R		Film 0.0018 μF/100V	D02018206C060
R155,156	Britany au	Carbon chip 100 ohm 1/10W	C200010160200	C11L,11R		Film 0.0068 μF/100V	D02068206C060
11100,100				C12L,12R	960 9001 401	Film 300 pF/100V	D02130106C000
R201		Carbon chip 680 ohm 1/10W	C200068160200	C13L,13R		Ceramic chip 100 pF/50V	D010101167200
R202		Carbon chip 820 ohm 1/10W	C200082160200	C14		Ceramic 10 pF/50V	D001100067520
R203		Carbon chip 1.5 kohm 1/10W	C200015260200	C15L,15R		Ceramic chip 820 pF/50V	D010821167200
R204		Carbon chip 2.2 kohm 1/10W	C200022260200	C16		Ceramic chip 0.047 μF/50V	D011473597200
R205		Carbon chip 4.7 kohm 1/10W	C200047260200	C17L,17R		Film 0.033 μF/100V	D02033306C060
R206		Carbon chip 680 ohm 1/10W	C200068160200	C18L,18R		Film 0.022 μF/100V	D02022306C060
R207		Carbon chip 820 ohm 1/10W	C200082160200	C19L,19R		Film 0.01 μF/100V	D02010306C060
R208		Carbon chip 1.5 kohm 1/10W	C200015260200	C20		Electrolytic 10 μF/25V	D040100084050
R209		Carbon chip 2.2 kohm 1/10W	C200022260200	C21		Electrolytic 22 μF/16V	D040220083070
R210		Carbon chip 3.3 kohm 1/10W	C200033260200	C22		Electrolytic 10 μF/25V	D040100084050
11210		Odresii onip die komin ii rom		C23		Electrolytic 1 µF/50V	D040010087050
R301L,301R		Carbon chip 10 ohm 1/10W	C200010060200	C24		Electrolytic 10 μF/16V	D042100083050
R302		Carbon chip 1 kohm 1/10W	C200010260200	C25		Electrolytic 2.2 µF/50V	D0402R2087250
R303L,303R		Carbon chip 120 kohm 1/10W	C200012460200	C26L,26R		Electrolytic 2.2 µF/50V	D0402R2087250
R304L,304R		Carbon chip 270 ohm 1/10W	C200027160200	C27L,27R		Electrolytic 0.47 μF/50V	D040R47087050
R305L,305R		Carbon chip 24 kohm 1/10W	C200024360200	C28		Film 0.0082 μF/100V	D02082206C060
R306L,306R		Carbon chip 560 kohm 1/10W	C200056460200	C29		Film 0.0022 μF/100V	D02022206C060
R307L,307R		Carbon chip 3.3 kohm 1/10W	C200033260200	C30,31		Film 0.0033 μF/100V	D02033206C060
R308L,308R		Carbon chip 4.7 kohm 1/10W	C200047260200	C32		Film 0.015 μF/100V	D02015306C060
R309		Carbon film 20 kohm 1/5W	C00002036P520	C33		Electrolytic 220 µF/16V	D040221083090
R310L,310R		Carbon chip 5.6 kohm 1/10W	C200056260200	C34,35		Ceramic chip 0.001 µF/50V	D010102167200
R311L,311R		Carbon chip 2.4 kohm 1/10W	C200030280200	C36,37		Electrolytic 100 µF/25V	D040101084060
R312L,312R		Carbon chip 47 kohm 1/10W	C200024260200	C38		Ceramic chip 0.047 µF/50V	D011473597200
R313L,313R		Carbon chip 1.8 kohm 1/10W	C200047560200	C39		Electrolytic 4.7 μF/50V	D0404R7087250
R314L,314R		Carbon chip 1 kohm 1/10W	C200010260200	C40,41		Ceramic 0.01 µF/50V	D004103277050
		Carbon chip 10 kohm 1/10W	C200010260200	C42,43		Electrolytic 10 μF/25V	D040100084050
R315L,315R		Oarborromp to Komm 1/10	5200010000200	C44,45	254 4256 091	Electrolytic 2200 µF/25V	D040222084030

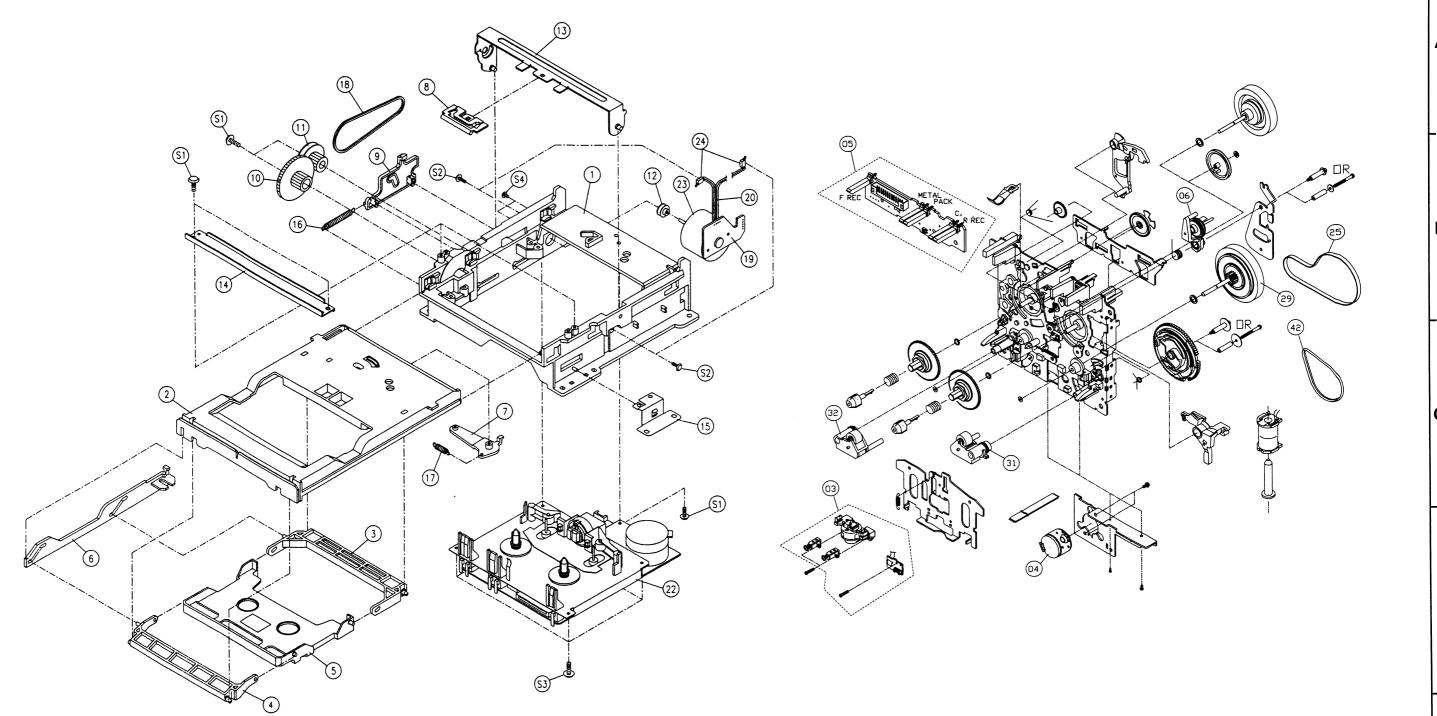
Ref. No.	Part No.	Part Name	Remarks	S	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C46		Ceramic chip 0.01 μF/50V	D01110359720	0	CN202	960 0124 905	3P connector base	L141521470310	1
C47		Electrolytic 10 μF/25V	D04010008405	0	CN301	960 0124 701	6P connector base	L101530140610	1
C48		Ceramic 0.01 µF/50V	D00410327705	0	CN302	960 0123 003	14P connector base	L101353361410	1
C49	254 4256 091	Electrolytic 2200 µF/25V	D04022208403	0					
C50		Electrolytic 10 µF/25V	D04010008405	0	ΔF1	960 0142 709	Fuse 250V 1A	G650102251160	1
C51		Electrolytic 47 µF/35V	D04047008510	0	 Æ F 2	960 0142 709	Fuse 250V 1A	G650102251160	1
C52	254 4261 044	Electrolytic 330 µF/50V	D040331087020	0				Asia Model only	
C53		Electrolytic 330 µF/25V	D040331084050	0					
C54		Electrolytic 10 µF/25V	D040100084050		FLT201	960 0044 001	FLD (BJ-239GK)	K530000280010	1
C55		Electrolytic 100 μF/16V	D04010108310)					
C56		Ceramic 0.01 µF/50V	D004103277050)	GND1	960 9006 600	GND terminal	3790040876010	1
								1 1 - 1	
C101		Ceramic 0.1 µF/50V	D006104597050		JACK1	960 0004 407	Mini jack	G401031102010	1
C102,103		Electrolytic 100 μF/16V	D040101083100		JACK301	960 0124 507	4P pin jack	G602040131030	1
C104,105		Ceramic chip 0.01 µF/50V	D011103597200	- 1					
C106		Electrolytic 2.2 µF/50V	D0402R208725		L1L.1R	960 0013 618	Inductor 1MH	D330180000000	2
C107,108		Electrolytic 1 µF/50V	D040010087080						
					SW201~211	960 0069 206	Tact switch	G180215050010	11
C301		Ceramic chip 0.01 µF/50V	D011103597200	,	SW212	960 0011 801	Slide switch	G060313012010	1
C302L,302R		Ceramic chip 470 pF/50V	D010471167200		3.1.2.12				
C303L,303R		Electrolytic 47 µF/16V	D040470083080		T1L,1R	960 0013 605	Trap coil	D302126522400	2
C304L.304R		Film 0.0056 μF/100V	D02056206C06		T2L,2R	960 0013 702	MW RF osc. coil	D940524000000	
C305L,305R		Electrolytic 1 µF/50V	D040010087080		T3	960 0013 809	OSC bias trans.	E080516900000	
C306L,306R		Electrolytic 1 µF/50V	D040010087080		T301L,301R		MPX filter	E401503000000	1
C307L,307R		Electrolytic 1 µF/50V	D040010087080		10012,00111	000 0120 001	The Action		
C308L,308R		Electrolytic 1 µF/50V	D040010087080		TP1	960 0123 207	3P connector base	L102526700300	1
C309L,309R		Film 0.1 µF/50V	D020104167060		TP301L,301R	960 0124 808	2P connector base	L102526700200	į.
C310L,310R		Film 0.068 µF/50V	D020683167060		11 0012,00111	0000121000	El comisciol bass		_
C311L,311R		Electrolytic 1 µF/50V	D040010087080		W103	960 0122 800	8P connector cord	L000231080010	1
C312L,312R		Electrolytic 4.7 µF/16V	D0404R708305		W104	960 0122 907	13P connector cord	L000261130020	
C313		Electrolytic 22 µF/16V	D040220083110		W106	960 0123 100	2P connector base	L102526700200	
C314	Name of the Control o	Electrolytic 1 µF/50V	D040010087070		W201	960 0124 206	28P FPC connector base	L130528072810	1
C315L,315R		Electrolytic 4.7 µF/16V	D0404R708305		W202	960 0124 109	3P connector cord	L024032507320	
C316L,316R		Ceramic chip 100 pF/50V	D010101167200	-	W302	960 0124 604	14P connector base	L101352371410	
C317L,317R		Film 0.015 µF/100V	D02015306C06		WOOL	000 0124 004	THE CONTROCTOR BUSC		1
00172,01711		μινιουν			X101	399 0107 007	Ceramic 4.19MHz	E830419000060	1
						000 0107 007	Cordinio 1. Tollil 12		
OTHER P	ARTS GROU	P		Q'ty		960 0122 509	Heat sink	2120000818030) 2
ΔA1	960 0143 203	AC outlet	G435040110000	1		000 0122 000	Trout on it	for IC4,5	1 -
						963 0019 501	Heat sink	2120020238030	0. 1
CLAMP1,2		Wire clamp	4330000120000	2		000 00 10 00 1	Trout on it	for IC6	,
							Carbon chip 0 ohm 1/8W	C200000061300	0 43
						960 0005 804	Fuse holder	G645000050010	1
CN1	960 0123 207	3P connector base	L102526700300	1		000 0000 004	T doc noider	for F1	' -
CN2	960 0118 908	2P connector base	L108039602010	1		960 0005 804	Fuse holder	G645000050010), 2
CN3	960 0123 304	2P connector base	L104353280200	1		000 0000 004	T doc notect	for F2	' -
			Europe & U.K. Models					Asia Model only	,
CN3	960 0128 901	3P connector base	L108353280310	1	A	963 0027 700	Slide switch	G06004055001	
			Asia Model		"	JUL GOLF 100	United STRIPE	Asia Model only	-
CN101	960 0123 508	5P connector base	L101530140510	1		960 0143 407	FL supporter	4070210016000	***
CN102	960 0123 605	13P connector base	L101530141310	1		963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B1	1
CN104	960 0123 702	2P connector base	L102526700200	1		300 00 10 007	OCIEM 0V0 OP 19(D)-7	20200000101	ا ا
CN201	960 0123 809	28P FPC connector base	L130528062810	1					

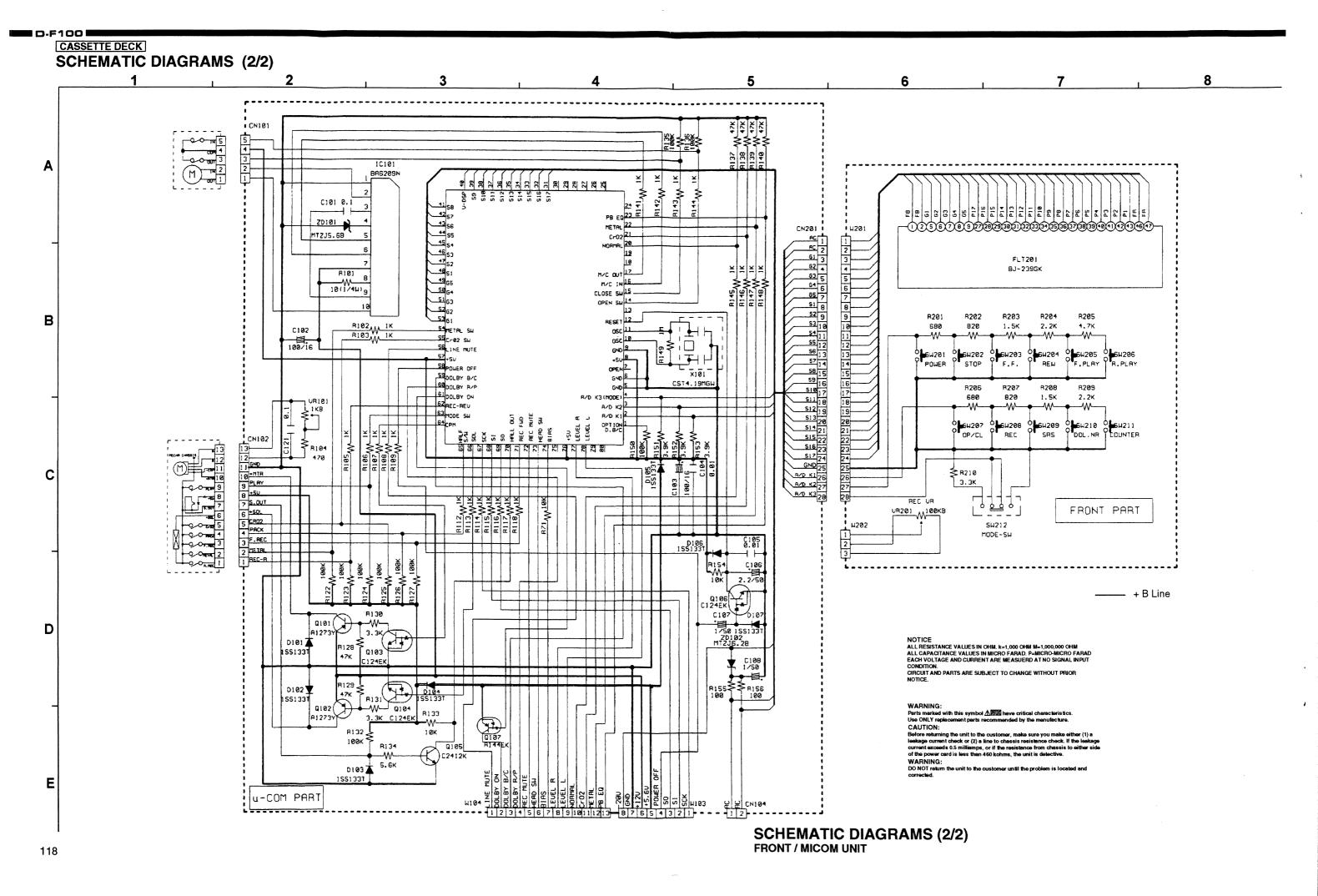
PARTS LIST OF EXPLODED VIEW

		<u> </u>	I L/(I LODE	- VIII VV	
Ref. No		Part No.	Part Name	Remarks	Q'ty
r1	14	960 0138 205	Main P.W.B. unit ass'y	7025HC9804010	1
				Europe & U.K. Models	
	14	960 0122 415	Main P.W.B. unit ass'y	7025HC9804040	1
	1	000 0122 110	man r .vv.b. and add y	Asia Model	, i
	8	960 0123 906	Front P.W.B. unit	/ ISIA IVIOGOI	
1 1	1	960 0123 900	Audio P.W.B. unit		
-2	23	960 0123 401	Micom P.W.B. unit		
		000 0445 707	DENON badas	500001000000	
	- 1	960 0115 707	DENON badge	5630210008000	1
	_	960 0121 102	Front panel	3067210048010	
		960 0115 309	Display window	5077210043010	1
		960 0121 801	Control knob	5087210021010	1
		960 0121 209	Front frame	3217210021010	1
	6	960 0121 306	Selector knob	5087210041010	1
	9	960 0003 505	Foot cushion	4050020075010	4
1	10	960 0003 408	Foot	4007000061010	2
.1	11	960 0121 500	Main chassis	3200210076000	1
1	12	960 0115 008	Foot	4000210001000	2
	13	960 0003 301	P.W.B. support	4070001601010	1
	16	960 0121 429	Back chassis	3207210036010	1
	ŀ			Europe & U.K. Models	
	16	960 0121 416	Back chassis	3207210036110	1
				Asia Model	
	17	963 0017 707	Cord stopper	4380040162010	1
Δ.	18	960 0032 301	AC cord	L061000410010	1
		960 0136 003	Power trans.	8200480044010	1
				Europe & U.K. Models	
Δ	21	960 0136 100	Power trans.	8200480044030	1
				Asia Model	
	22	960 0125 001	Cassette mecha. ass'y	8158210020010	1
	24	960 0121 607	Mecha, bracket	4010210046000	1
	25	960 0121 704	Tray cover	4317210011010	1
1	26	960 0121 005	Top cover	3000210006100	1
1 .	27	300 0121 003	Wire clamp	4330040213010	1
	28	960 0125 409		L000161080010	1
	29	960 0125 506		L000171050010	1
				L000261130010	
	30	960 0125 603	13P connector cord		1
*	31	960 0125 700	28P FPC	L301121280010	1
SCRE	ws				
	A	960 0108 604	Screw 3×8 CBTS(B)-B	B020030083B10	15
	Α	960 0108 604		B020030083B10,	2
	.,			for slide switch	
				Asia Model only	
	В	960 9008 006	Screw 3×8 CFTS(B)-B	B020030083F10	2
	С	963 0018 104		B020030083110	1
	D	960 9003 001	Screw 4×8 CBTS(S)-Z	B020740081B10	2
	E			Alban and Mithael and an inci-	11
1	_	963 0018 007	Screw 3×8 CBTS(B)-Z	B020030081B10	1 11
			I the second of		1

CASSETTE MECHANISM PARTS LIST (IDL-03B)

CAUCE			7.1.1.0 2.0	
Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER	MECHA. SE	CTION		
1	960 0140 002	Mecha. body	341021003100	1
2	960 0140 109	Loading tray	460021000100	1
3	960 0140 206	Back lever	253021002100	1
4	960 0140 303	Front lever	253021001100	1
5	960 0140 400	CST lifter	267021000100	1
6	960 0140 507	Lift slider	264021001301	1
7	960 0140 604	Tray lever	253021000100	1
8	960 0140 701	Chuck holder	432021003300	1
9	960 0140 808	Chuck slider	264021000100	1
10	960 0140 905	Center gear	247004029101	1
11	960 0141 001	Pulley gear	247004034101	1
12	960 0141 108	Motor pulley	250000031000	1
13	960 0141 205	CST chuck	401021009600	1
14	960 0141 302	CST stopper	401021008600	1
15	960 0141 409	Deck GND	307021003600	1
16	960 0141 506	Chuck spring	372021000600	1
17	960 0141 603	' •	372021003600	1
18	960 0141 700	. •	249021000500	1
19	960 0141 807		702002245001	1
20	960 0141 904		L00021104002	1
22	960 0125 108	Deck mecha. (CMAL2Z714X)	815000039001	1
23	960 0125 108	DC motor	G70032200001	
23	960 0123 203	Micro switch	G22004013001	2
24	900 0142 000	WIGIO SWILCH	G22004010001	
S1	960 9008 307	Screw 2.6×8 W		5
	1			2
S2	960 9008 310	Screw 2×6 W		4
S3	960 9008 323	Screw 3×8		2
S4	960 9008 336	Screw 2.6×5		-
1				
1				
DECK ME	CHA. SECT	ION (CMAL2Z714X)		
3	9DF 5138 31	Head plate block	8950007150000	1
4	9DF 5253 27	Main motor block	8950007150010	1
5	9DF 5676 26	Control PCB block	8950007150020	1
6	9DF 5220 52	Clutch ass'y block	8950007150030	1
25	9DF F19H 11	Main belt	8950007150040	1
29	9DF 5220 48	Clutch ass'y block	8950007150050	1
31	9DF 5141 29	Pinch roller block R	8950007150060	1
32	9DF 5141 30	Pinch roller block L	8950007150070	1
42	9DF F18W 12		8950007150080	1
1				
1				





SPEAKER

SPEAKER SYSTEM (Option for Asia model)

SPECIFICATIONS

Type:

2-way, 2-speakers,

Frequency range:

45Hz ~ 30kHz 88dB (1m, 1watt)

Speakers:

Low-leakage-flux 14cm cone woofer Sensitivity: 8

Crossover frequency: 4kHz

Dimensions:

183(W) x 328(H) x 240(D) (mm)

Input impedance:

2.5cm dome tweeter 6 ohms

Weight:

4.3kg

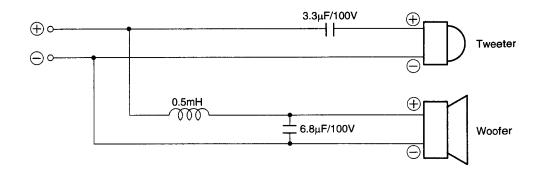
Max. input:

60 watts (EIAJ)

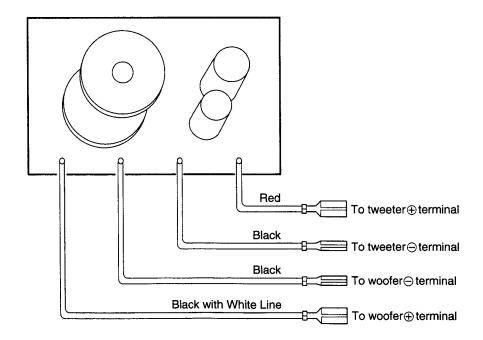
* For improvement purposes, specifications and design are subject to change without notice.

* Low-leakage-flax complies with EIAJ standard.

SCHEMATIC DIAGRAM

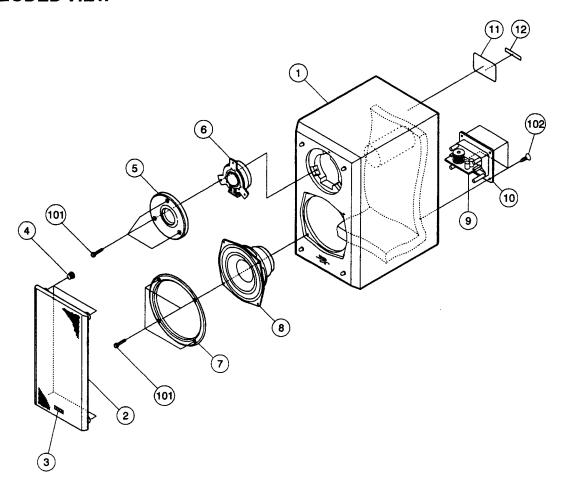


NETWORK ASS'Y



SPEAKER

EXPLODED VIEW



PARTS LIST OF EXPLODED VIEW

PACKING & ACCESSORIES

(Not indicated in the Exploded View)

			·	(I vot indicated in the Exploded view)					
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	SCF 1001 001	Cabinet ass'y		2	201	SCF 1001 013	Connecting cord ass'y		2
2	SCF 1001 002	Grille frame ass'y		2	202	SCF 100E 103	Instruction manual		1
3	SCF 1001 003	DENON badge		2	203	SCF 100E 104	Carton case		1
4	SCF 1001 004	Catcher		8	204	SCF 1009 005	Cabinet sheet		4
5	SCF 1001 005	Tweeter ring ass'y		2	205	SCF 1009 006	Cushion		2
6	SCF 1001 006	Tweeter		2	209	SCF 1001 012	Serial No. sheet	for carton case	1
7	SCF 1001 007	Woofer ring		2	210	SCF 100E 105	Control label	for carton case	2
8	SCF 1001 008	Woofer		2					
10	SCF 100E 101	2P terminal	include network	2					
			ass'y Ref. No. 9						
11	SCF 100E 111	Rating sheet		2	Į.				ł
12	SCF 1001 012	Serial No. sheet		2					
SCREWS					!				
101	SCF 1009 001	Screw 4×20 HSHCTS	for speaker	14					
102	SCF 1009 002	Screw 3.5×12 CFTS	for 2P terminal	8					
					1				